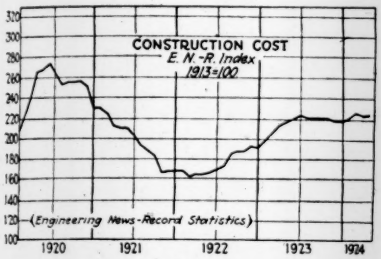
CONSTRUCTION NEWS

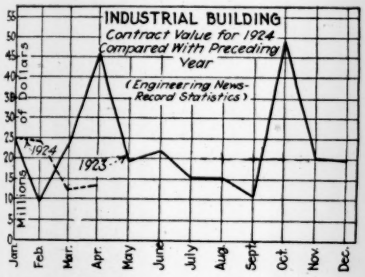
Engineering News-Record, May 8, 1924

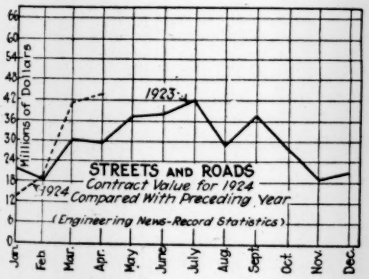
The Construction Barometer

Contracts Show Increase During First Week in May — Volume for Month May Be Smaller Owing to Higher Labor Cost and Restriction of Demand for Materials

THAT the volume of May construction may not measure up to the mark attained last month is suggested by the accompanying charts of *Engineering News-Record's* Construction Cost and Volume Index Numbers. The Cost Index in March was 224.7, in April it was 221.6 and in May, 222.4. The cost drop in April gave rise to a greater volume of construction for that month, therefore the rise in the May cost level will probably have the reverse effect. Cost is greater than a year ago; volume is smaller. The advance in the May Cost Index was due principally to higher wage schedules for building labor, since prices of materials have been steadily tending downward during the last thirty days.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Apr. 17	$28,549,000	$22,293,000	$50,842,000
Apr. 24	22,575,000	12,153,000	34,728,000
May 1	23,838,000	20,548,000	44,386,000
3 weeks	$74,962,000	$54,994,000	$129,956,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

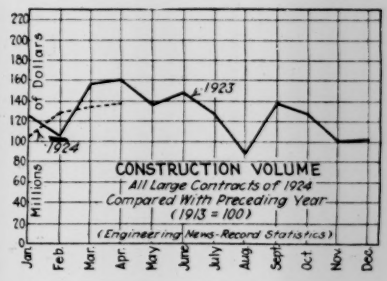
Week Ended	Public No.	Public Work	Private No.	Private Work
Apr. 17	16	$4,210,000	49	$16,139,000
Apr. 24	10	5,810,000	24	9,124,000
May 1	20	4,801,000	33	11,761,000
3 weeks	46	$14,821,000	106	$37,024,000

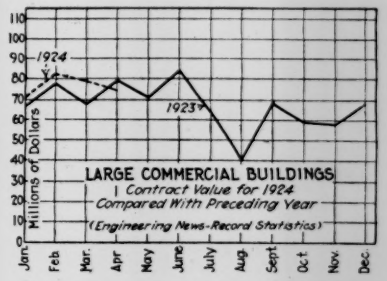
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

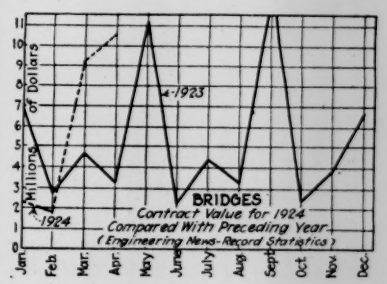
Week Ended	Private	All Buildings	Public Streets and Roads	Public Water-works and Sewers	Public All Public
Apr. 17	42	52	109	41	254
Apr. 24	25	51	104	55	282
May. 1	30	50	100	51	249

PRICES OF BASIC MATERIALS STILL DECLINING

	Quoted on May 8 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.25 @2.35	$2.25 @2.50	May 1
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	63.00	64.00	Apr. 10
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.56	.55	Apr. 24







Waterworks

PROPOSED WORK

N. Y., Attica—Voted $55,000 bonds to enlarge water system and construct new reservoir. Noted Apr. 24.

N. Y., Binghamton—Had plans prepared extending mains in 5 streets. $25,000. H. M. Gitchell, supt. Water Dept.

N. Y., Saranac Lake—Bd. Dirs. Trudeau Sanitorium plans water supply reservoir. $15,000-$18,000. Address E. R. Baldwin, c/o owner.

N. Y., Saratoga Springs—Making plans new water supply system from Jenny-Hunt Effner Lakes. $500,000. J. P. Wells, Cutler Bldg., Rochester, hydraulic engr. Noted Apr. 17.

N. Y., Sodus—Bd. Village Trustees plans new water supply system. To exceed $25,000. A. Shufelt, chn. bd. water comrs.

N. Y., Wilson — Bd. Trustees & Bd. Water Comrs. plan extending water supply system. $15,000. C. S. Taggart, chn. Bd. Water Comrs.

N. J., Avon-by-Sea—Plans drilling wells and constructing pumping station. $42,000. J. Thomson, mayor. Engineer not selected. This corrects report in May 1st issue.

La., Berwick—Having preliminary plans prepared electric light plant and waterworks incl. 50,000 gal. standpipe, two unit 3 phase light system, mains, etc. $50,000. H. A. Mentz, Magnolia, Miss., engr.

O., Barberton—Plans 3.5 mi. 24 in. c.i. pipe line and standpipe, 60 ft. diam., 55 ft. high, 1,500,000 gal. capacity. $200,000. J. Mentzer, service director.

O., Cleveland—Making preliminary plans chemical house, mixing chambers, filter house, grading and sidewalks at Baldwin Reservoir. $750,000. G. W. Hamlin, City Hall, engr.

O., Girard—Plans 1 m.g. water purification plant, twin settling basins, wells, mixing basins, filter beds, pump house, etc. $60,000-$70,000.

O., Piqua — Plans filtration plant. $500,000.

Wis., Mukwonago — Having plans prepared waterworks improvements, incl. pumping machinery, airlifts, air compressor and concrete reservoir, also new septic tank. R. Cramer, 1105 Vliet St., Milwaukee, engr. Noted Mar. 20.

Minn., Waconia—Voted $25,000 bonds, waterworks system. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. Noted Apr. 10.

Kan., Goff—Rejected bids 14,423 ft. 2- to 6-in. pipe, 5108 lb. reinforcing, 50,000 gal. steel tank on 80 ft. tower, 3 deep wells and 100 g.p.m. pump and motor. Shockley Eng. Co., 800 Graphic Art Bldg., Kansas City, Mo., engrs. Noted Jan. 24.

Mo., Columbia—Soon takes bids 12 in. mains downtown, 400 hp. boiler, steam turbine centrifugal pump, 3 m.g. concrete reservoir, 2 deep wells, 1,500 kw. generator set, new electric and feeder lines, etc. $190,000. Noted Sept. 13.

Waterworks (Continued)

Mo., Chaffee — Soon takes bids 4 in. mains in various streets, $26,000, also 8- to 12-in. sanitary sewers in various streets, $23,000. C. E. Smith, Ry. Exch. Bldg., St. Louis, engr.

Mo., Portageville—Election soon to vote on $40,000 bonds waterworks improvements. A. C. Moore, 221 West 3rd St., Joplin, consult. engr.

Mo., Potosi—Making plans waterworks and sewers. $50,000. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs. Noted Nov. 15.

Tex., Ranger—Soon takes bids 1 m.g. filter plant and 500,000 gal. standpipe. $100,000. N. Werenskiold, Marvin Bldg., Dallas, engr.

Ariz., Williams—Voted bonds and final plans in progress for waterworks improvements. Burns & McDonnell, 415 Marsh-Strong Bldg., Los Angeles, Calif., engrs.

Calif., Corona—Temescal Water Co. having plans prepared pipe line, 130,000 lin. ft. 30 in. concrete pipe; earth dam, 19 ft. high, 1,100 ft. long on top, 16 ft. wide at top; pumping plants: two 10 in. centrifugal, total lift 40 ft., operated by 100 hp. motors. $200,000. Private plans.

Calif., Eureka—Plans to purchase 1,000 lin.ft. 8 in. Class B c.i. pipe, also 12,500 lin.ft. 2 in. standard black pipe, random lengths, for immediate delivery. J. Griffiths, supt. pub. wks.

Calif., Fresno—Fresno City Water Co. appropriated $185,000, improvements to water system. G. B. Jackson, genl. mgr.

Calif., Los Angeles—Having plans prepared 21 in main and laterals along line, Mulholland Dr. To exceed $25,000. W. Mulholland, ch. engr. City Bureau of Waterworks.

Calif., Oakdale—Plans 600 g.p.m. pumping plant. H. E. Shipman, water supt.

Calif., San Bernardino—Voted $275,000 bonds extending water system. C. E. Johnson, city engr. Noted Apr. 5.

Que., Beauport—Plans to enlarge water system. $200,000. E. Hamel & Co., 51 St. Pierre St., Quebec, engrs.

Que., Three Rivers—Had plans prepared filtration plant, 6-24 in. c.i. mains, 3 m.g. centrifugal pump, etc. $300,000. C. Gelinas, Three Rivers, engr.

Que., Farnham—Having plans prepared 1 m.g. filter plant, 6 new lines, 1,000 ft. 16 in. c.i. pipe, elevated tank, 150,000 gal. capacity, 100 ft. high. $90,000. A. Plancondon, 70 St. James St., Montreal, consult. engr.

Que., Montreal—Takes bids end of May, 24,364 ft. 8 in. mains in 19 various streets and avenues. R. Bauset, city clk.

B. C., Vancouver—Plans election to vote on $100,000 bonds for improvements at intake works, also $65,000 for fire protection system in Stanley Park. C. Brackenridge, city engr.

BIDS DESIRED

N. Y., Buffalo—May 19, by Dept. Pub. Wks., Municipal Bldg., two 72 x 135 in. and two 72 x 72 in. rectangular sluice gates, for filter plant. G. C. Andrews, Col. Ward Pumping Sta., engr.

N. Y., Silver Creek — May 23, by Bd. Water Comrs., furnishing c.i. pipe, Div. 1, hauling and laying c.i. pipe, Div. 2. J. P. Wells, Cutler Bldg., Rochester, hydraulic engr.; adv. E. N.-R. May 8.

N. J., Highlands — May 26, by Boro Council, Boro Hall, steel standpipe. F. Kieferdorf, mayor; adv. E. N.-R. May 8.

N. J., Keansburg (Arlington, P. O.)— May 27, by Boro Council, at office of H. E. Cowley, boro clk. c.i. pipe, pumping station and filters. Alexander Potter, 50 Church St., New York City, consult. engr.; adv. E. N.-R. May 8.

Pa., Downington — May 22, by E. B. Wagner, secy. Town Council, filter plant of three 500,000 gal. units, small concrete dam, and pumping station; adv. E. N.-R. May 8.

Pa., Sayre — May 15, by Sayre Water Co., extending brick pumping station, electric motor driven centrifugal pumping units, steam engine driven centrifugal pumping unit, c.i. pipes, vitr. pipe, specials castings and valves, pipe laying, coagulating basin, etc. C. C. West, genl. mgr.

La., Alexandria — May 19, by City Comrs., 2 m.g. rein.-con. reservoir. H. J. Duncan, engr.

O., Cleveland—May 15, for 60 in. c.i. or steel main in Sect. 2 Ridge Rd. To exceed $75,000. A. V. Ruggles, City Hall, engr.

Ill., Fairfield—May 14, by F. M. Yohe, c/o Wayne County Clerk, constructing pump house and sluiceways, installing two 100 hp. semi-diesel oil engines, two 24-in. centrifugal pumps, two 5 x 5 ft. concrete sluicegates, etc. $40,000.

Mich., Jackson—May 21, by City Clerk, rein.-con., brick and steel high service pumping station; adv. E. N.-R. May 8.

Minn., Red Wing—May 14, pump house and concrete foundations for pump equipment. S. T. Irvine, clk. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engrs.

Minn., Winona—May 19, by city, 13,398 lin.ft. 4- to 14-in. c.i. Class B water pipe, 28 brick manholes, 15,400 lb. c.i. specials, 28 gate valves, 17 fire hydrants. $30,877. E. E. Chadwick, city engr.

Mo., Chillicothe—May 16, by City Auditor, 500 hp. water tube boiler with super heater, stoker and accessories, stoker for boiler, 7 x 175 ft. brick or concrete stack, remodeling and constructing addition to boiler room. E. E. Harper, 3031 Park Ave., Kansas City, engr.

Okla., Oklahoma City — May 20, by M. Peshek, city clk., water supply improvements; adv. E. N.-R. May 8.

Wash., Lynden—May 12, by City Council, 500,000 gal. filter unit, incl. filter basins, settling basins, etc., furnishing and erecting 100,000 gal. steel tank on 90-ft. steel tower. Shibley & Bovard, Northwest Bank Bldg., Portland, Ore., engrs. Noted Apr. 3.

Que., Cap-De-la-Madeline — City taking bids 1,500 g.p.m. centrifugal pump. $6,000.

BIDS RECEIVED

N. Y., Jamestown—For 2 m.g. concrete reservoir, from Mullen, Guinnane & Ludwig, 303 North Main St., $28,829. Noted Mar. 27.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Maurice Ave. and 67th St. and removing existing connections, etc., at Queens Blvd and Fisk Ave., here, from Hanratty Contg. Co., 605 Beach Terrace, New York. $124,-159. Noted Apr. 24.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Apr. 29, mains in Culver and Hunt Places, Alstyne, Burnside, Colonial, Maurice, Nicolls, Pear-tree and Way Aves. Ivy, Pilgrim, Van Cleff, 20th, 24th, 44th, 51st and 113th Sts., here, from J. A. Gregory, 351 East 124th St., New York, $17,324. Noted Apr. 24.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Apr. 30, mains in White Plains Rd., Chatterton, Gildersleeve, Gleason, Newman and Underhill Aves., from Hanratty Contg. Co., 605 Beach Terrace, $7,530; in Boston Rd., Allerton, Astor, Cruger, Fairmount, Hollywood, Matthews and Wallace Aves., Barry and Cravens Sts., from C. DeBlasio, 339 7th Ave., Mt. Vernon, $7,568. Noted Apr. 24.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Apr. 29, mains in Knapp St., Westchester Esplanade, Allerton, Astor, Fenton, Mickle, Seymour and Waring Aves., from Knight & Demicco, 448 East Tremont Ave., $8,400; in Bogart, Hering, Jerome, Lurting, Pierce, Radcliff, Rhinelander, Sherman, Van Nest and Yates Aves., from J. V. Timoney Constr. Co., 220 East 201st St., $7,458. Noted Apr. 24.

Md., Baltimore — Bd. Awards, Apr. 30, furnishing and delivering special 30-in. Poppet valves, Water Contr. 73, from Ellicott Machine Corp., Bush and Severn Sts., $5,186; trench excav. from M. and J. B. McHugh, 829 North Markoe St., Phila., Pa., $36,420. Noted Apr. 24.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Grand Concourse, East Moshulu Parkway, Aqueduct, Montgomery, Van Cortlandt and Waldo Aves., East 163th, East 190th, West 175th, West 180th and West 197th Sts., from Beaver Eng. & Contg. Co., 51 Chambers St., $20,585. Noted May 1.

O., Cleveland—For 2,108 tons 60 in. c.i. mains in West Side, from Great Lakes Dredge & Dock Co., Williamson Bldg., $204,377.

CONTRACTS AWARDED

N. Y., Albany—Filtration plant, to James J. Finn & Son, 176 Sherman St., $445,992. Noted May 1.

N. Y., Buffalo—Commissioner Pub. Wks., Municipal Bldg., shaft, etc., to McWane Cast Iron Pipe Co., 27th Ave. N., Birmingham, Ala., $57,397; screen well and conduits, to Jarrett-Chambers Co., 30 East 42nd St., New York City, $174,835. Noted Mar. 27.

N. Y., Dunkirk — Bd. Water Comrs., water pump, 8 m.g. capacity, to Worthington Pump & Mchy. Corp., 115 Bway., New York City, $41,975. Noted Apr. 10.

N. Y., La Salle—Bd. Village Trustees water system standpipe; foundation to J. T. Smith & Son, La Salle, $8,740; standpipe and painting, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $17,830. Noted Dec. 13.

Pa., Sharon—Constructing 3 story, 80 x 200 ft. (3 m.g. capacity), addition to filtration plant with booster stations along line of distribution, to Burnip Constr. Co., 223 East Broad St., Columbus, O., $200,-000. Noted Feb. 7.

O., Cincinnati—Director Pub. Serv., Apr. 24, reservoir for Eastern Hills, 500 ft. 8 in., 400 ft. 24 in. and 150 ft. 30 in. iron pipe, 2,000 ft. 8- to 12-in. vitr. pipe, 13,-000 sq.yd. gunite, 18,000 cu.yd. rein.-con., 70,000 cu.yd. earth excav., from M. Penker & Sons, 123 Valencia St., $579,462. Engrs. est. $720,000. Noted Apr. 17.

O., Cleveland—Sect. 3 of West Side high service main, 2,108 tons 60 in. c.i. pipe, 11,000 cu.yd. earth trenching, to Great Lakes Constr. Co., c/o J. T. Martin, B. F. Keith Bldg., $204,377. Noted Apr. 17.

O., Cleveland—For 2,630 tons 60 in. c.i. mains in Woodland Ave., Contr. 30E, to D. Lowensohn Co., 6795 Wakefield Ave., $261,948. Noted May 1.

O., Cleveland—Cuyahoga Co. 15,000 ft. 6 and 8 in. c.i. mains, Impvt. 13 of Co. Sewer Dists. 1 and 2, to D. Pfahl & Co., Fisher Rd., $47,908. Noted May 1.

O., Cleveland—Cuyahoga Co., 13,000 ft. 6 and 8 in. c.i. mains in Miles Rd. Impvt. 550, Sewer Dist. 5, to Curro & Whittaker, 12208 Mayfield Rd., $104,341. Noted Apr. 17.

Ill., Metropolis — City Council, waterworks improvements as follows: to J. V. Boland Constr. Co., Chemical Bldg., St. Louis, Mo., building and foundation $23,-567, pipe work and covering $7,384, chimney $3,962 and concrete reservoir $6,100; to Westinghouse Electric & Mfg. Co., 717 South 12th St., St. Louis, Mo., switchboard $3,557, steam turbo engine unit $16,645, condensor $4,207; to F. M. Luth, 3000 Shenandoah Ave., St. Louis, Mo., centrifugal pumps and motors $3,757, deep well $3,245 and laying c.i. pipe $17,-245; to Jeffery Machine Co., Pontiac Bldg., St. Louis, Mo., coal elevator $1,525; to Chicago Bridge & Iron Wks., 608 South Dearborn St., Chicago, steel tower and tank $8,475; to Elliott Machine Co., Victoria Bldg., St. Louis, Mo., closed heater $525; to Reeves & Skimmer Machine Co., 2211 Olive St., St. Louis, Mo., boiler feed pumps $620; to Natl. Cast Iron Pipe Co., 122 South Michigan St., Chicago, cast iron pipe $27,117; to Ludlow Valve Mfg. Co., 209 South La Salle St., Chicago, valves and hydrants $3,640. General supervising contractor, W. I. Tune, Metropolis.

Tex., Frisco—Pipe, to U. S. Cast Iron Pipe & Fdry. Co., Magnolia Bldg., Dallas, $11,200; tank and tower, to Pittsburg Des Moines Steel Co., Praetorian Bldg., Dallas, $6,000; 2 in. pipe and fittings, to Nelson Mfg. Co., 915 McKinney Ave., Dallas, $3,000.

Ill., Roselle—Deep Well to M. T. Peterson, 120 North Franklin St., Madison, Wis.; tank to Grover Corp., East Chicago. Noted Apr. 10.

Wis., Milwaukee—For 20,401 ft. 6- to 12-in. c.i. mains in Fernwood Dist., to L. J. Stevenson, 1720 Cedar Ct., $17,941. Noted Mar. 27.

Minn., Fergus Falls—For 5,991 lin.ft. 6- to 10-in. c.i. pipe, Class B, 16 ft. long, nineteen 6- to 10-in. c.i. valves, and twelve 6-in. c.i. valves, split sleeve, (about 125 tons), to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis; 6,500 lb. pig lead to Western Smelting & Refining Co., 7th and Douglas Sts., Omaha, Neb.

Que., Beauport—Furnishing 450 tons 4, 6, 8 and 10 in. c.i. pipe, and 7 tons fittings, to Kennedy & Co., 285 Beaver Hall Hill, $25,000.

Sewers

PROPOSED WORK

Mass., Boston—Plans sewerage system in Germantown Dist., West Roxbury, $165,000 will be expended this year. Total $2,000,000. E. P. Murphy, div. engr.

N. Y., Syracuse—Plans sewage pumping station at Kirkpatrick and Van Rensselaer Sts. and new sewers in Turtle, Pulawski, Sand, Kirkpatrick, Solar, Clinton, Spencer, Bear, Basin, Hiawatha, Geddes, Liberty and Marquette Sts. To exceed $200,000. T. H. Mather, city engr.

O., Painesville—Plans sewage treatment works. $50,000. C. M. Crabbe, Painesville, engr.

Sewers (Continued)

Ill., Belleville—Making preliminary plans straightening Richland Creek from Illinois to 3rd. Lincoln and West Adams, probably closing West Creek in conduit, new storm sewers and disposal plant. $345,000-$484,000. C. A. Heinzelmann, City Hall, engr.

Ill., East St. Louis—Having surveys made storm and sanitary sewerage system and sewage disposal. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Minn., Waconia — Voted $25,000 bonds sewerage system, etc. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. Noted Apr. 10.

Kan., Guff—City rejected bids 14,188 ft. 8-in. vitr. clay pipe, 80 ft. 8-in. c.i. pipe, 31 manholes, 3 flush tanks, Imhoff tank, etc. Shockley Eng. Co., 800 Graphic Arts, Kansas City, Mo., engrs. Noted Jan 24 under Waterworks.

Mo., Chaffee—See "Waterworks."

Mo., Potosi—See "Waterworks."

Mo., Portageville—Election soon to vote on $30,000 bonds for sewers. A. C. Moore, 221 West 3rd St., Joplin, consult. engr.

Mo., St. Louis — Bd. Pub. Serv. takes bids about July 15, Sect. B of River Des Peres Project, 1.25 mi., partially lined opened channel, 140 ft. wide at bottom, 100 ft. at top, 18 ft. deep, closed sanitary sewer and system of laterals from 12- to 48-in. $485,000. W. W. Horner, 300 City Hall, engr. Noted Feb. 14.

Tex., Dallas—J. P. Stephenson, c/o Koch & Fowler, engrs., Central Bank Bldg., had plans prepared 18-24 in. sewers from city limits to Midway Rd. at Bluff View Estates. $75,000.

Tex., El Paso—Voted $100,000 bonds extending system, additional mains and laterals, also enlargement of plant. Address Mayor Dudley. Noted Apr. 17.

Okla., Pittsburg—Election May 20, $30,-000 bonds, 4 mi. sewerage system and disposal plant, incl. Imhoff tank and 9,500 ft. 8 in. and 2,000 ft. 10 in. vitr. clay pipe. C. O. Waring, clk. Engineer not selected.

Okla., Sand Springs — City defeated $152,000 bonds for sewers. Holway Eng. Co., 515 New Wright Bldg., Tulsa, engr.

Calif., Claremont — Having plans prepared sewerage system. To exceed $35,-000. O. A. Gierlich, Monrovia, engr. Noted Feb. 14.

Calif., Dos Palos — Los Palos Sanitary Sewer Dist. having plans prepared sewerage system, probably vitr. pipe. $25,000 or more. A. Jensen, Rowell Bldg., Fresno, engr. Noted Oct. 11.

Calif., Elsinore—Voted bonds and making plans sewer improvements. Burns & McDonnell, 415 Marsh-Strong Bldg., Los Angeles, engrs. Noted Dec. 20.

Calif., La Verne—Voted $60,000 bonds, sewage disposal plant. Noted Apr. 10.

Calif., Pomona — Voted $25,000 bonds, Elrod treatment plant. F. C. Troehe, city engr. Noted Mar. 13.

Calif., Redondo Beach—Voted $25,000 bonds, extending sewers. Noted Mar. 20.

Calif., Sonoma—Plans to vote on $25,000 or more bonds, sewage disposal improvements.

Calif., South Pasadena (Branch Pasadena)—Voted $25,000 bonds, sewage disposal plant.

Calif., Watsonville—Having plans prepared and will probably vote on $25,000 bonds, sewage treatment plant. H. B. Kitchen, city engr.

Ont., Brampton—Plans sanitary sewers in Eastern Ave., Lowes, Nelson, McMurchy, and Church Sts., also storm sewers in Craig, Elliott, Wellington and Guest Sts. $35,000. C. M. Corkett, City Hall, engr. Prices wanted on materials.

Ont., Fort Erie—Rejected bids completing sewerage system. $225,000. Will readvertise.

Ont., Welland — Plans to repair main sewer wrecked by gas explosion. $30,000. A. Coulson, City Hall, engr.

B. C., Vancouver—Election May 31, to vote on $200,000 bonds, extending sewers in various parts of city. C. Brackenridge, city engr.

BIDS DESIRED

N. J., Keansburg (Arlington, P. O.)—May 27, by Boro Council at office of H. E. Cowley, boro clk., disposal plant, sanitary and outfall sewers. Alexander Potter, 50 Church St., New York City, consult. engr.; adv. E. N.-R. May 8.

Pa., Phila.—May 12, by Dept. Pub. Wks., Bureau Surveys, City Hall, 26 branch sewers in Aikens, Broad, Durham, Edna, 57th, Haines, Judson, Janney, Knox, Linmore, Magnolia, Middleton, Mitchell, Oxford, Sheridan, Spring, Trinity, Weikel and Dupont Sts., Dicks, Malvern and Manyunk Aves., Cobbs Creek Parkway, Edgemoor and Flanders Rds., Georges Lane.

D. C., Wash.—May 28, by Dist. Comrs., sewers in Piney Branch, Halbrook and 7th Sts., 19,720 cu.yd. excav., 2,930 cu.yd. concrete and 364 cu.yd. vitr. brick masonry also 255 cu.yd. sewer brick masonry.

O., Cleveland—May 14, by Cuyahoga Co., 17,000 ft. 8- to 48-in. vitr. clay sewers, Impvt. 300. R. F. MacDowell, Court House, engr.

Mich., Springwells — See "Streets and Roads."

Mont., Shelby—June 2, by A. M. Hart, city clk., 6,000 lin.ft. 8 in. sewers, 4,000 cu.yd. earth excav., Impvt. Dist. 14; adv. E. N.-R. May 8.

Mo., St. Louis — June 3, by Bd. Pub. Serv., 208 City Hall, Sect. "A" Ohio-Montrose Public relief sewer, and Sect. "B" North Baden Public sewer extension; adv. E. N.-R. May 8.

Ark., Pine Bluff — See "Streets and Roads."

Tex., Luling — Taking bids sanitary sewers and disposal plant. $40,000. Koch & Fowler, Central Bank Bldg., Dallas, engrs.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, Apr. 30, storm water drains in Sewer Dists. 48 and 34-A, Storm Water Contr. 68, 4,000 ft. 15- to 36-in. storm drain and inlet connections, from Ryan Constr. Co., 8 Light St., $22,-897. Noted Apr. 24.

O., Cleveland—For 90 ft. of 6 ft. 3 in., 290 ft. 6 in. and 290 ft. 5 ft. 9 in. (a) brick or (b) segmental block, in Kensington Rd., from Graham & Henderson, 1274 West 108th St., (a) $52,830 (b) $47,410; double lay 2,160 ft. 24 in. vitr. tile sewer in Marcelle Rd., from Joseph Co., Prospect Four Bldg., $34,530; 1,820 ft. 12- to 24-in. vitr. tile sewer in Krakow, Rathbun and Berdelle Aves., from Shannon & O'Shea, 3380 West 135th St., $7,515; 680 ft. 33 in. and 270 ft. 30 in. vitr. sewer in Kazimer Ave. from W. McDowell & Son, 10319 Miles Ave., $15,490; 79 ft. 12- to 18-in. vitr. tile sewer in South Hillview Ave., from F. Phillip Co., Engineers Bldg., $4,217; 270 ft. 2 "C" brick and 270 ft. 24 in. vitr. tile sewer in East 68th St., from Donnelly & Miller, $8,361; 630 ft. 12- to 24-in. vitr. tile sewer in East 108th St., from E. Cesa, 2462 Baldwin Rd., $4.144.

O., Cleveland—Cuyahoga Co. 9,150 ft. 8- to 18-in. vitr. clay sewers, Impvt. 31, from Salem & George Bros., Erie Bldg., $44,260.

O., Massillon—Director Pub. Serv., May 1, for (a) concrete pipe, (b) segmental block (c) brick (d) concrete sewers in (1) Tuscarawas Trunk (2) North End Trunk (3) Wooster Trunk (4) Sippo Trunk (5) Wetmore Trunk, from United Eng. & Constr. Co., Sandusky, (a1) $99,397 (b1) $97,655 (2) $42,410 (3) $28,252 (4) $41,-420 (5) $19,188; Kohlbarger & Hurley, Marion (c1) $108,763 (d1) $107,208. Noted Apr. 24.

Mich., Detroit—Dept. Pub. Wks., 4,461 ft. Wyoming Ave. Sewer, Sect. 6, 4,362 ft. 7 ft. 6 in. and 99 ft. 4 ft. 6 in. cylinder, from R. A. Mercier, 5435 Wesson Ave., $124,626; also Swain Ave. Outlet Sewer from Greiling Bros., Morrell St., $58,930. Noted Apr. 10.

Mich., Royal Oak — C. J. Crawford, drainage comr. Oakland Co., deepening and widening 13,600 ft. Red Run Drain, incl. underpinning 4 bridges 25-56 ft. spans, from Davis & Paupore, 3151 Leland Ave., Detroit, $39,169; 10,371 ft. Campbell Ave. Drain, Sect. 2, 9 ft. 6 in. to 10 ft. diam., brick or monolithic concrete, from R. A. Mercier, 5435 Wesson Ave., $480,000; 17,-865 Campbell Ave. Drain, Sect. 3, 24 in. to 9 ft., vitr. crock, concrete and brick, from S. Healy, 6466 Epworth Blvd., Detroit, $439,677; furnishing 70 tons structural steel I beams from Beach Mfg. Co., Charlotte, $3,072. Noted Apr. 24.

Neb., Fremont—Laying 8.25 mi. concrete and c.i. pipe from A. A. Dobson Constr. Co., 1st Natl. Bank Bldg., Lincoln, concrete pipe only $29,268, A. A. Donbson Constr. Co. and Wright Bros., Fremont, c.i. pipe only $25,064; Mickelson Cement Products, Alberlee, Minn., $56,590. Noted Apr. 17.

Wash., Seattle—Bd. Pub. Wks., sewers in 34th Ave. W. et al., from Scalzo & Co., Seattle, $100,373. Engrs. est. $89,936. Noted Apr. 24.

Calif., Glendale — See "Streets and Roads."

Calif., Los Angeles — See "Streets and Roads."

CONTRACTS AWARDED

Mass., Brighton (Boston, P. O.)—City of Boston, last link of Shepard Brook Sewer, here, to V. Grande, 22 Hull St., Boston, $33,000.

Mass., Dorchester (Boston P. O.)—City of Boston, Dorchester Brook Sewer, to V. Barletta, 10 Whipple Ave., West Roxbury (Boston P. O.) $53,860. Noted Apr. 24.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Sect. 2C, modification and extension of biological plant, 26th Ward disposal works, to Niewenhous Co., Inc., 316 East 161st St., New York, $558,726. Noted May 1.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, **e. e. means engineers estimate**, sewer in Benson Ave., to J. W. Murphy, 8866 26th St., $27,300; sewer in 65th St., to Tomasetti & Co., Inc., 1133 60th St., 86.86% e. e. ($33,770); in Bay 34th St., to Nazzarro & Querriero, 82.41% e. e. $6,083; 73rd, West 23rd, East 37th and West 7th Sts., and Delamere Pl., to S. Ambrocio, 106 69th St., 88% e. e. $5,510, 93% e. e. $800, 81% e. e. $1,400, 84.98% e. e. $470, 80% e. e. $800 respectively; 80th St. and Ft. Hamilton Parkway, to Manmill Constr. Co., 2035 Douglass St., 88.8% e. e. $4,618 and 98.2% e. e. $1,740 respectively; 7th Ave. to C. F. Vacharas, 645 40th St., 93% e. e. $4,037; Ft. Hamilton Parkway, to Tozzi Contg. Co., 95.75% e. e. $1,406. Noted May 1.

Pa., Upper Darby (branch Phila., P. O.)—Comrs. Upper Darby Twp., 17,400 ft. Cobbs Creek Sutfall Sewer from 60th to 69th Sts., to W. H. Garson, 5033 Brown St., $176,000. Noted Mar. 27.

Fla., Miami Beach — To Gedney & Murphy, St. Petersburg, storm sewers $35,-968, sanitary sewers $58,447; to J. J. Quinn Co., Miami, storm sewers 15, 16, 17 and 21, $50,113, sanitary sewers 18 and 19, $42,000, sanitary sewer 20, $38,000. Noted Mar. 13.

Miss., Greenwood — See "Streets and Roads."

O., Cleveland—Cuyahoga Co., 22,000 ft. 8- to 48-in. brick sewer in Miles Rd. Impvt. 501, to Curro & Whittaker, 12208 Mayfield Rd., $148,217. Noted Apr. 17.

O., Euclid—For 5,775 ft. 30 in. concrete sewer in Lake Shore Blvd., to Graham & Henderson, 1274 West 108th St., Cleveland, $128,823. Noted Apr. 24.

O., Shaker Heights (Cleveland P. O.)—Vitr. clay sewers in Scottsdale Rd. east and west sections, to Curro & Whittaker, 12208 Mayfield Rd., Cleveland, $44,795; 2,970 ft. 8- to 24-in. vitr. tile sewer in Winchell Rd., to Salem & George Bros., Erie Bldg., Cleveland, $24,169; in Lomond Blvd., to C. W. Jackson, 1318 East 84th St., Cleveland, $54,270. Noted May 1.

Mich., Detroit—Dept. Pub. Wks., 5,294 ft. Six Mile Rd. Sewer, Sect. 9, monolithic concrete in tunnel, 4 ft. 6 in. to 6 ft. 9 in. cylinder, to G. R. Cooke, 1260 Penobscot Bldg., $122,147; 5,468 ft. Seven Mile Rd. Sewer Sect. 9, brick in tunnel 5 ft. to 5 ft. 6 in. cylinder, to W. Blanck Co., 827 Ford Bldg., $128,246. Noted Apr. 17.

Wis., Milwaukee — Monolithic concrete and pipe sewers in Roosevelt Dr., to Clayton Constr. Co., 397 Farwell Ave., $203,009; Sherman Blvd. from Roosevelt Dr. to Concordia Ave., to G. E. Zimmermann, 3402 Grand Ave., $114,899; Sherman Blvd. from Concordia Ave., to Burleigh, St., to Hammen & Co., 342 East North Ave., $86,-329; Oklahoma Ave., etc., to Milwaukee Sewer & Drainage Co., 928 Humboldt Ave., $15,004. Noted Apr. 24.

Wis., Milwaukee—Sewerage Comn., 508 Market St., setting 72,000 filter plates in connection with sewage disposal plant on Jones Island, to Klug & Smith, Mack Blk., $32,913.

Neb., Syracuse—Constructing sewers in various streets, to W. B. Carter, 506 U. B. Bldg., Sioux City, Ia., $34,788.

Mo., Cameron — Sewers, disposal and pumping plants, to Carrothers Bros. Constr. Co., 310 Walsix Bldg., Kansas City, $57,980. Noted Apr. 17.

Tex., Royse City—Will lay 23,000 ft. 6, 8 and 10 in. pipe, also build disposal plant, by day labor. E. L. Dalton, Wilson Bldg., Dallas, engr. in charge construction. $25,000.

Colo., Denver—For 10 mi. 8, 10 and 12 in. vitr. sewers in South Side Special Sanitary Sewer Dist. 9, to Pendergast & Connor Constr. Co., 1st Natl. Bank Bldg., $60,153. Noted Apr. 27.

Calif., Alhambra—Sewerage system, to Culzak & Bebeck, 1824 North Brannick St., Los Angeles, 1,276 lin.ft. 12 in. vitr. pipe $1.15, 42,799 lin.ft. 8 in. $1.05, total $96,-500. Noted Apr. 17.

Sewers (Continued)

Calif., Santa Ana — See "Streets and Roads."

Waste Disposal

BIDS DESIRED

Md., Baltimore — May 14, by Bd. Awards, 3 story, 55 x 173 ft. disposal plant, 28th and Sisson Sts. $150,000. S. Purcell, City Hall, ch. engr. Noted Feb. 7.

BIDS RECEIVED

N. Y., Rockaway Beach (Ind. Sta. Far Rockaway)—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Long Island City, Apr. 29, constructing and completing building and runway, furnaces, appurtenances and chimney of Rockaway Beach Destructor, here, from Hudson City Eng. & Constr. Corp., 25 Hunterspoint Ave., Long Island City, $298,000. Noted Apr. 24.

CONTRACTS AWARDED

Fla., Jacksonville—For 40 ton addition to incinerator plant, to Nye Odorless Crematory Co., Georgia Life Bldg., Macon, Ga., $28,000.

Ill., Quincy—Garbage incinerator, to Superior Garbage Incinerator Co., Praetorian Bldg., Dallas, Tex. Engrs. est. $25,000.

Bridges

PROPOSED WORK

New York—Bd. Supervs. Ontario Co. (Canandaigua) and Livingston Co. (Geneseo) plan concrete highway bridge over Honeoye Creek. $30,000.

N. Y., Jamestown — Election May 3, $350,000 bonds, West 3rd St. bridge. S. A. Carlson, mayor. Noted Nov. 8.

Tenn., Maryville — Comrs. Blount Co. plans highway bridge at Brobsons Ford. $25,000.

S. D., Pierre—State Hy. Dept., Pierre, having plans prepared 1,800 high truss bridge over Missouri River, here. $500,000.

Missouri — State Hy. Dept., Jefferson City, received no bids Apr. 22, two 24 ft. rein.-con. deck girder spans, 1 concrete pier, etc., over Brushy Creek, Carter Co.; three 20 ft. rein.-con. slab spans, etc., over Long Branch, and five 20 ft. rein.-con. slab spans, etc., over Lamine River overflow, Cooper and Morgan Counties. Noted Apr. 17.

Okla., Ralston—Pawnee Co. voted $200,000 bonds, 3 steel truss bridges across Arkansas River. J. M. Page, c/o State Hy. Dept., Oklahoma City, engr.

Calif., San Francisco — City and San Francisco Co. had plans prepared timber trestle for Bay crossing pipe line of Hetch Hetchy project. $175,000. M. M. O'Shaughnessy, city engr.

BIDS DESIRED

North Carolina—See "Streets and Roads."

Fla., Key West—June 5, by J. O. Kirchheimer, ch. Bd. Comrs. Monroe Co., steel draw-bridge, piers, abutments, operating machinery, fender system, etc., over Barnes Sound between Key Largo and mainland; adv. E. N.-R. May 8.

Ill., Chicago—May 12, at office of H. A. Zender, Cook Co. supt. of pub. serv., single span rein.-con. deck girder, bridge and temporary pile trestle, known as Willow Bridge, Sect. 142C-15D, alternate bids (a) cement furnished by county (b) cement, coarse and fine aggregates furnished by county, (a) $26,606 (b) $25,346; 5 span rein.-con. deck girder and temporary pile trestle, known as Rust Bridge, Sect. 142A-15D, alternate bids (a) cement furnished by county (b) cement, coarse and fine aggregates furnished by state, (a) $86,282 (b) $80,572.

Wis., West Allis—May 12, by Bd. Pub. Wks., A. Wichner, supt., 2 rein.-con. bridges at 77th Ave. over Honey Creek. $25,000. W. Darby, city engr.

Minn., St. Paul—May 19, by G. J. Ries, aud. Ramsey Co., bridge over Mississippi River at Jackson St., 892 ft., 24 ft. roadway and one 6 ft. sidewalk, all timber except one 92-ft. through plate girder lift span. City and Ramsey Co., owners. $125,000. G. M. Shepard, city engr. Noted Apr. 24.

South Dakota—See "Streets and Roads."

Tex., Alice—See "Streets and Roads."

Tex., Clarendon—May 22, by R. Porter, judge Donley Co., 312 ft. steel truss bridge over Salt Fork of Red River, 9 spans, I beam approaches, concrete piers and bents, etc. $25,500. C. L. Hasie, Box 168, Memphis, engr.

Colorado—May 15, by State Hy. Dept., Denver, 2,155 ft. bridge over Arkansas River at Sta. 961 plus on Federal Aid Project 248-A, about 6 mi. north of Salida, Chaffee Co., 350 cu.yd. concrete, 39,500 lb. reinforcing and 228,000 lb. structural steel, etc. $29,155. L. D. Blauvelt, State Office Bldg., Denver, engr.

California—May 26, by State Recl. Bd., Eng. Dept., Sacramento, 6 timber bridges, 18 ft. wide, total length 949 ft., 55 fixed spans of 17 and 19 ft. each on 5-pile bents, incl. 144,000 ft. No. 1 common Oregon pine, creosoted piles, over East and West Levees of Sutter By-Pass, Sutter Co.

California—May 26, by State Highway Comn., Sacramento, bridge across Klamath River near Requa (I-D. N.-A), Del Norte Co., five 210 ft. rein.-con. arch spans and two 50 ft. rein.-con. approach spans. R. M. Morton, state highway engr. Noted June 7.

Calif., Los Angeles—June 2, by Bd. Pub. Wks., rein.-con. viaduct, 9th St., across Los Angeles River. $650,000. J. Griffin, city engr.

BIDS RECEIVED

N. Y., Buffalo—City, substructure of Stevenson Bridge over improved Cazenovia Creek Channel, from J. Johnson Constr. Co., 765 Abbott Rd., $37,200; superstructure from McClintic-Marshall Co., 1201 Oliver Bldg., Pittsburgh, Pa., $22,480, Independent Bridge Co., May Bldg., Pittsburgh, Pa., Design A $24,840, Design B $22,840, Standard Eng. & Contg. Co., 2463 Bway., Toledo, O., Design A $24,500, Design B $23,700. Noted Apr. 17.

N. Y., New York—E. W. Buckley, comr. Purch., Municipal Bldg., May 2, machinery and steel for North Channel bridge, from Bethlehem Steel Co., 25 Bway., $139,325. Noted May 1.

Missouri — State Hy. Dept., Jefferson City, Apr. 22, three 20 ft. rein.-con. slab spans, etc., over stream, Cooper Co., from W. J. Cochran & Son, Boonville, $4,350; one 60 ft. steel truss span, etc., over Choteau Creek, Cooper Co., from Western Bridge Co., Harrisonville, $12,374; one 40 ft. rein.-con. deck girder span, etc., over creek, Dade Co., from R. H. Sharp, Reeds Springs, $4,043; one 60 ft. steel truss span, etc., over Muddy Creek, Linn Co., from Meek & Galbreath, Chillicothe, $11,193; one 25 ft. rein.-con. deck girder span, etc., over Northview Branch, Webster Co., from C. F. Johnson, Buffalo, $2,664; one 35 ft. rein.-con. deck girder span, etc., over creek, Benton Co., from Bertman & Menefee, Sedalia, $3,717; one 180 ft. and two 80 ft. steel truss spans, etc., over Lamine River, Cooper Co., from Haller & Davis, Boonville, $41,375; one 80 ft. steel truss span, etc., over Maugua Creek, Webster Co., one 35 ft. rein.-con. deck girder and four 20 ft. rein.-con. slab spans, etc., over tracks of Chicago & Alton R.R., Lafayette Co., and two 12 ft. rein.-con. slab spans, etc., over Witchet Creek, Lafayette Co., from M. E. Gillioz, Monett, $9,013, $8,865 and $4,558 respectively; three 20 ft. rein.-con. slab spans, etc., over Mulky branch, five 30 ft. I-beam spans, etc., over Davis Creek Drainage Ditch and three 30 ft. I-beam spans, etc., over Davis Creek, all Lafayette Co., from Cook-O'Brien Constr. Co., 305 Ry. Exch., Kansas City, $5,891, $8,328 and $5,630 respectively. Noted Apr. 17.

CONTRACTS AWARDED

New Jersey—State Hy. Dept., Trenton, concrete encased plate girder bridge of 9 fixed spans and 1 double leaf bascule span with concrete piers and abutments, also temporary bridge and removing existing bridge over Manasquan River, Monmouth and Ocean Counties in Municipalities of Brick and Wall, to S. S. Thompson, 111 Chestnut St., Red Bank, $424,695. Noted Apr. 10.

Ga., Quitman—Comrs. Brooks Co., 2 concrete arch highway bridges over Piscola Creek, to Luten Bridge Co., York, Pa. Est. cost $25,000.

Fla., Alva—Lee Co., Fort Myers, draw bridge over Caloosahatchee River, here, to Champion Bridge Co., H. C. Quinn, Agt., Box 481, Fort Lauderdale, $36,000.

O., Cleveland — Cuyahoga Co. concrete bridge, Hilliard Rd., to Walsh Constr. Co., 308 Euclid Ave., $809,694. Noted May 1.

Ill., East St. Louis—East Side Levee and Sanitary Dist., bridge over Prairie du Pont Diversion canal, one 169 ft. and two 101 ft. 6 in. concrete spans, to H. H. Hall Constr. Co., Murphy Bldg., $80,400. Noted Mar. 27.

Ia., Cherokee—Cherokee Co., 69 concrete culverts, 1 pony truss and 4 I-beam spans, to Material Supply & Constr. Co., Boone, $44,678.

Ia., Decorah—Bd. Supervs. Winneshiek Co., 9 concrete culverts, to Ward & Teslow, Decorah, $5,566, 13 concrete culverts, to J. J. Grose, Decorah, $6,490, 1 high truss bridge, to Rodies & Bales, Strawberry Point, $17,450.

Ia., Montezuma—Bd. Supervs. Powesheik Co., 2 pony trusses and 3 I-beams, to M. O. Burnett, Morengo, $24,329, 10 box culverts and one I-beam to Iowa Bridge Co., 1263 East 19th St., Des Moines, $15,828, 15 box culverts, to A. Melberg, Vinton, $14,980.

Minnesota—See "Streets and Roads."

Minn., Austin—Mower Co., Bridge 3461 over Cedar River, two 75 ft. concrete arch spans, to Widell Co., Mankato, $48,026. Noted Mar. 20.

Neb., Bridgeport—Morrill Co., c/o W. C. Clark, 700 ft. bridge, 7 spans, on Federal Aid Project 79 C, to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, $83,300. Noted Apr. 17.

Neb., Nebraska City — See "Streets & Roads."

Mont., Cut Bank—Great Northern Ry. Co., 175 East 4th St., St. Paul, steel and concrete bridge over Cut Bank River, to Widell Co., 1st Natl. Bldg., Mankato, Minn., $115,000.

Arkansas — Comrs. Pulaski, Saline and Garland Counties, 5 steel bridges on Little Rock-Hot Springs Highway, to L. Johnson, 519 North Sergeant, Joplin, Mo., 132,000 lb. structural steel in trusses $0.07, 42,285 lb. structural steel in I beams $0.055, 141.62 cu.yd. concrete $22, 29,015 lb. reinforcing steel $0.055. Noted Mar. 27.

New Mexico—See "Streets and Roads."

California—State Highway Comn., Sacramento, 12 rein.-con. bridges, between Old Elk Grove and Sacramento, Sacramento Co., to T. H. and M. C. Polk, Chicago, $40,099. Noted May 1.

Dams

PROPOSED WORK

Ariz., Flagstaff — City having surveys made multiple arch concrete dam in Schulz Canyon, to impound 50 m.g. Burns & McDonnell, Marsh-Strong Bldg., Los Angeles, engrs.

Calif., Corona—See "Waterworks."

Calif., Merced—Merced Irrigation Dist. had revised plans prepared for Exchequer Dam, rein.-con., gravity section type, 320 ft. high. R. V. Meikle, ch. engr. Noted Dec. 20.

Calif., Pescadero — See "Excavation, Drainage, Irrigation."

BIDS DESIRED

Okla., Oklahoma City — May 20, by M. Peshek, Jr., city clk., sluice gates, operating stands and extensions to dam. $200,000. B. M. Hart, city engr. Noted Nov. 1.

Que., Berthierville — Running Streams Comn., Quebec, taking bids storage dam in River du Loup, north of here. $300,000.

CONTRACTS AWARDED

Vt., Morrisville—See "Unclassified."

N. Y., Potsdam—See "Unclassified."

Railways

PROPOSED WORK

New York—New York, Ontario & Western R.R., Grand Central Terminal, New York City, plans relaying with 100 lb. rails 12 mi. between Oswego and Fulton. $150,000. W. C. Heidenthal, Middletown, engr. m. w.

New York — See "Streets and Roads under Syracuse, N. Y."

California—Bakersfield & Kern Electric R.R. Co. plans improvements to lines. $100,000.

California — Merced Irrigation Dist., Merced, rejected bids relocating Yosemite Valley R.R. $1,500,000. Noted Sept. 20.

Quebec—Canadian Natl. Ry., Windsor Sta., Montreal, plans 6 mi. branch line from Donnaconna to Allensby Junction. $300,000.

CONTRACTS AWARDED

Florida—Fort Myers Southern Ry., c/o D. M. Lamdin, ch. engr., Wilmington, N. C., railroad from Fort Myers to Bonitas Springs, grading 14 mi., to Morrison & Boswell, Inverness; grading 9 mi. to W. R. Wallace & Co., Fort Myers. Noted Mar. 20.

Ontario — W. H. Maund, secy.-treas. Temiskaming & Northern Ontario Ry., North Bay, 17 mi. road bed, from Cassidy to South Lorrain, to Grant Bros., Ltd., Bank Natl. Bldg., Rideau St., Ottawa. Noted Apr. 10.

Texas—Dallas Ry. Co., Interurban Bldg., Dallas, will build Tyler Burlington street railway line in Oak Cliff, also pave same, by day labor. $146,000. R. B. Brown, ch. engr.

Excavation, Drainage, Irrigation

PROPOSED WORK

Mich., Monroe—Drainage—Comrs. Monroe Co. plan dredging 20 drains. $180,000.

Ill., Cairo—Cairo D. D., c/o City Clerk, voted $150,000 bonds to improve drainage and flood protection system.

Excavation, Drainage, Irrigation (Continued)

Ark., Jonesboro—D. D. 28, c/o M. M. Markle, Jonesboro, having preliminary surveys made reclaiming many acres in Central portion Craighead Co., incl. 10 mi. drainage ditches beginning ½ mi. south of Brookland. Cob & Lee, Jonesboro, engrs.

Tex., Bay City—See "Unclassified."

Tex., Garland — Garland Levee Impvt. Dist., c/o McKay & Montgomery, engrs., Andrews Bldg., Dallas, had plans prepared 6.5 mi. channeling, Muddy Creek, Dallas Co. $30,000.

Calif., Bakersfield—Buena Vista Water Storage Dist. plans to vote on bonds for system to irrigate 80,000 acres. Engineer not selected.

Calif., Escondido — Escondido Mutual Water Co. having plans prepared 1,800 lin. ft. 42 in. steel siphon, and lining 22,462 lin. ft. main ditch. J. B. Dixon, supt. Private plans.

Calif., Pescadero—D. Atkins, et al. 260 California St., San Francisco, having plans prepared several earth fill dams and pumping plants, to irrigate ultimately 720 acres, here. C. E. Grunsky, 57 Post St., San Francisco, engr.

BIDS DESIRED

Ill., Danville—May 31, by Comrs. Union D. D. 3 of Grant and Ross Twps., 14,300 ft. 12- to 24-in. tile. J. F. Fisher, Danville, engr.

Ill., Fairfield—See "Waterworks."

Ill., Paxton—May 26, by Comrs. Sibley D.D., at office of Clerk Ford Co., 25,597 ft. main open ditch extending west from Sibley, involving 119,149 cu.yd. excav., Branch 1, 3,575 ft. hard burned shale tile, etc. Contractor will be entitled to construct at same price per cu.yd. an outlet ditch 1 mi. long, leading from lower end of drainage ditch to main ditch of Mackinaw Dist.

Neb., Omaha—May 13, by J. P. Hoctor, city clk., filling in and reclamation of park ground at Levi Carter Park by dredging lake. Noted Apr. 24 under "Unclassified."

BIDS RECEIVED

N. Y., Buffalo—Commissioner Pub. Wks., Municipal Bldg., Apr. 22, dredging Buffalo Inner Harbor to completed contract depth for maintenance of channel to June 30, 1925, from Great Lakes Dredge & Dock Co., D. S. Morgan Bldg., $0.41 per cu.yd. scow measure. Noted Apr. 17.

CONTRACTS AWARDED

Wis., Milwaukee — Dredging various rivers and channels, 133,600 cu.yd., to Great Lakes Dredge & Dock Co., 216 West Water St., $0.4375 per cu.yd. Noted Apr. 24.

Ark., Osceola—Sub. Dist. 1 of D. D. 12, reconstructing and enlarging 24 mi. drainage ditches, 12- to 30-ft. bottom and construction 6 mi. new ditches 6- to 10-ft. bottom, approximately 575,000 cu.yd., to McWilliams Co., Inc., Exch. Bldg., Memphis, Tenn., $0.13 per cu.yd.

Calif., Merced—Merced Irrigation Dist., canals, to J. G. Hoskins, Turlock, Div. 1 (1) $0.1125 (2) $1.25 (3) $0.16; Niman & Cook, Turlock, Div. 2 (1) $0.104 (2) $1 (3) $0.18; J. Phillips 637 Santa Ray Ave., Oakland, Div. 3 (1) $0.14 (2) $0.14, Divs. 4 and 5 (1) $0.14 (2) $0.14.

Calif., Williams — Williams Irrigation Dist. will build 13 mi. canal, 140,000 cu.yd. earthwork, by day labor. Noted Apr. 10.

Streets and Roads

PROPOSED WORK

N. Y., Dansville — Bd. Village Trustees plan paving Knox and other streets. To exceed $25,000. C. Grant, village pres.

N. Y., Newark — Bd. Village Trustees plan paving several streets. $50,000. C. H. Drake, pres.

N. Y., Old Forge—Bd. Village Trustees plan resurfacing and constructing new roads. To exceed $25,000. E. J. Lenhardt, pres.

N. Y., Rensselaer—Made plans improving South St., repaving Bway. and paving 5th St., Aiken, Chestnut and Fowler Aves. To exceed $25,000. A. J. Kaufman, city engr.

N. Y., Syracuse — Had plans prepared paving Garfield Ave., $31,900; eliminating curve on Liverpool Rd., $14,200. T. H. Mather, city engr.

N. Y., Syracuse—New York State Rys. plans paving Spring St., $35,000 also new loop at end of Irving Ave., $10,000. H. E. Bean, engr. way & structures.

N. Y., Waterloo—Bd. Village Trustees plan paving various streets. $27,000-$30,000. L. V. Fillingham, village clk.

N. Y., Watertown — Common Council soon takes bids paving Huntington, Leray, Newell, Engine, Center and River Sts. To exceed $25,000. P. B. Sutton, city engr.

N. J., Hackettstown—Warren Co. (Belvidere), with State aid, plans concrete paving Mountain Ave., here. $55,000. H. W. Vetter, Belvidere, engr.

W. Va., Lewisburg—Williamsburg Dist. Greenbrier Co. election May 27. $130,000. bonds for roads.

W. Va., Wheeling—Bd. Pub. Wks. soon takes bids paving 8th, 24th, 39th, 42nd, and York Sts. To exceed $25,000.

Fla., Sandford—Having plans prepared sheet asphalt paving 11,760 sq.yd. Myrtle and Holly Sts., $29,400; 16,464 sq.yd. 8th Ave., 15th, 16th and 5th Sts., $41,160; 10,584 sq.yd. Elm Ave. and 14th St., $26,460; 11,760 sq.yd. Park and Maple Aves., etc., $29,400; 11,760 sq.yd. 12th and 6th Sts., $29,400; 11,760 sq.yd. 11th and 3rd Sts., $29,400; 9,958 sq.yd. 7th Ave., $25,000; 12,936 sq.yd. Highland Ave., 9th and Hughes Sts., $32,340. F. T. Williams, Sandford, engr.

Ala., Eufaula — Plans paving various streets, to exceed $25,000.

Ala., Tuscaloosa—City takes bids about May 5, paving 10 blocks with asphaltic concrete. W. H. Nicol, Tuscaloosa, engr.

Louisiana — Taxpayers of 7th, 8th and 9th Wards, Jefferson Parish, plan election to vote on $400,000 bonds for concrete highway from Hanson City near Charles Parish line to Protection levee at Carrollton, where highway will connect with South Claiborne Ave., in New Orleans, which will be improved by City of New Orleans and State Hy. Dept.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading, bridges, etc., 15 mi. Bolivar-Fayette Co. Rd., Hardeman Co. J. G. Creveling, highway comr.

Tenn., Blountsville—Comrs. Sullivan Co. plan improving 9 mi. Bristol-Big Creek Rd. $50,000.

Tenn., Byrdstown—Pitckett Co. making surveys grading and surfacing, probably limestone, 8 mi. Byrdstown-Fentress Co. line Rd.

Tenn., Nashville—City plans to gravel and oil Wharf Ave., Jefferson and Chestnut Sts. Work probably be done by city forces. W. W. Southgate, city engr.

Tenn., Nashville—Davidson Co. plans to improve 2 mi. Gallatin and Hillsboro Pikes, Federal Aid Project 206, Davidson Co. Hy. Comn., Court House, engrs.

Tenn., Pulaski — Giles Co. appropriated $25,000. 6 mi. Weakley Bridge-Lawrence Co. Rd., 16 ft. Work will be done under supervision State Highway Dept.

Tenn., Rogerville — Hawkins Co. voted $75,000 bonds 11 mi. Rogersville-Pressmans Home Rd.

Kentucky—State Hy. Dept., Frankfort, plans improving various roads (**S. P. means State Project**), grading 11 mi. Carrollton Milton Rd., 24 and 28 ft., S. P. 13, Carroll Co., 17.65 mi. Bosworth Trail, 24 and 28 ft., S. P. 30, Clay Co., 34 mi. Fulton-Tennessee Rd., 24 and 28 ft., S. P. 54, Fulton Co., road from Greenup City to Carter Co. line, S. P. 28, Greenup Co., 4 mi. Elizabethtown-Larue Co. line Rd., 24 and 28 ft., S. P. 41, Hardin Co., 11 mi. Central Highway-Ramsey-Muhlenberg Rd., 24 and 28 ft., McLean Co., road from Christian Co. line to Tennessee State line, 24 and 28 ft., Todd Co.; surfacing 14 mi. Williamsburg-Jellico Rd., 18 ft., S. P. 35, Whitley Co., Bardwell-Hickman Co. line Rd., 18 ft., S. P. 7, Carlisle Co., Bardwell-Ballard Co. line Rd., 24 and 28 ft., S. P. 9½, Carlisle Co., road from Greenup to Lewis Co. line, 24 and 28 ft., S. P. 20, Greenup Co.; with waterbound macadam 3.5 mi. Cave City-Horse Cave Rd., 18 ft., Hardin Co.; with gravel 4 mi. Lebanon-New Market Rd., S. P. 25, Marion Co., 22 mi. Louisville-Paducah Rd., 18 ft., Hancock Co., 9 mi. Lebanon-Boyle Co. line Rd., 18 ft., S. P. 25, Marion Co.; reconstructing 6.1 mi. Elizabethtown-Leitchfield Rd., Hardin Co. J. S. Boggs, highway engr.

Ky., Benton—Marshall Co. plans election $40,000 bonds, for roads.

Ky., Bowling Green—Warren Co., plans repairing, grading and macadam surfacing various roads. $56,000.

O., Canton—Plans 1.5 mi. 12th St. N. W., 30 ft., brick, $150,000, Gross Ave. N. E., brick, $35,000; ½ mi. Harrison Ave., 30 ft., asphalt, $30,000; ½ mi. Dewalt St. N. W., 20 ft., $27,500. W. E. Sarver, City Hall, engr.

O., Cincinnati — Plans improving Canal Parkway, incl. two 20 ft. sidewalks, two 40 ft. asphalt roadways, one 30 ft. concrete parking space. $4,417,765. F. Krug, City Hall, engr.

O., Cleveland—See "Waterworks."

O., East Liverpool — Soon takes bids brick paving ½ mi. West 4th St. $30,000. J. A. George, City Hall, engr. Noted Jan. 24.

O., Massillon — Soon takes bids brick paving Jarvis Ave. $30,000. C. E. Rice, Massillon Ave., engr.

O., Massillon — Plans improving Commonwealth Ave., High, Plum and Wallace Sts. $127,500. C. E. Rice, Massillon, engr.

O., New Philadelphia—Tuscarawas Co. takes bids this summer improving 3.5 mi. Newcomerstown-Oxford Rd., 20 ft. $80,000.

O., St. Clairsville—Plans grading, curbing and paving 3,380 ft. Newell and North Market Aves., brick, block or concrete. H. M. Davies, mayor.

O., Wooster—Soon takes bids asphalt resurfacing Liberty St., $57,022; grading, laying necessary sewer connections and paving College and Scovel Aves., Spink, University and Spring Sts., brick, $98,362, asphalt $81,032. C. L. Orr, city engr. Noted Jan. 24.

Ind., Crown Point—Lake Co. plans grading and gravel surfacing 11 mi. W. J. Fulton Rd., 30 ft., $170,000; 7.6 mi. Peter W. Meyn Rd., 30 ft., $133,500. C. K. Wallace, Crown Point, engr.

Ind., Evansville—Bd. Pub. Wks., plans paving William St. from Elsas to Kentucky Aves., brick, asphalt, concrete or asphaltic concrete. To exceed $25,000. J. D. Saunders, city engr.

Ind., Indianapolis—Marion Co. plans paving W. O. Lee Rd., 30,624 sq.yd. concrete on concrete. $78,200. J. J. Griffith, Indianapolis, co. engr.

Michigan — State Hy. Dept., Lansing, plans grading and gravel surfacing 44,668 sq.yd. State Trunk Line Rd. in Lapeer. G. C. Dillman, ch. engr.

Mich., Highland Park (Detroit, P. O.)—Plans prepared grading and paving 32 alleys, 30,109 cu.yd. excav., 92,646 sq.yd. 6 in. concrete paving. L. C. Whitsit, 28 Gerald Ave., engr.

Mich., Otsego — Having plans prepared 26,000 sq.yd. concrete pavement, and 13,000 lin.ft. concrete curb and gutter. $75,000. A. Lenderink, Kalamazoo, engr.

Mich., Saginaw—Saginaw Co. Rd. Comn. plans shaping and surfacing 3.006 mi. in Assessment Dist. Rd. 60, Saginaw Co., gravel on stone. $36,000. R. W. Roberts, Saginaw, engr.

Mich., Saginaw West Side—Saginaw Co. plans grading and surfacing 20 mi. roads. $300,000. R. W. Roberts, Saginaw, engr.

Wis., Milwaukee — Milwaukee Co. Hy. Comn. making plans concrete surfacing, etc., Hopkins Rd. from 27th St. to county loop, Old Chicago Rd. from Clement to Howell Aves., 77th Ave. from Greenfield to Lincoln Aves., 51st Ave. from railroad tracks to Beloit Rd., 10th Ave., from Marquette to Madison Aves., Marquette Ave. from 10th to 12th Aves. Wisconsin Hy. Comn., Madison, engrs.

Wis., Stevens Point—Portage Co. voted $150,000 bonds, concrete surfacing State Trunk Highways 10 and 18. T. E. Cauley, comr.

Ia., Cedar Rapids—Plans paving 20,000 sq.yd. with brick, concrete or asphalt. T. F. McCauley, 1422 A Ave., W., engr.

Ia., Emmetsburg—Palo Alto Co. defeated $800,000 bonds, hard surfacing roads. Noted Apr. 3.

Ia., Kanawha—Plans paving 8 blocks. $28,000. J. Lilly Kanawha, engr.

Ia., Lehigh — Plans paving 10 blocks. $30,000. J. E. Lowrie, city clk.

Minn., Hibbing—Plans paving 25 blocks. $100,000. J. P. Murphy, city clk.

Kan., Baxter Springs—City soon takes bids grading and surfacing with rein.-con., brick on concrete or asphaltic concrete 8 blocks 10th, 11th, 12th and 13th Sts. $25,000.

South Dakota—State Hy. Dept., Pierre, plans 8.5 mi. Belle-Fourche-Spearfish Rd.

N. D., Lisbon—J. A. Gray, aud. Ransom Co., rejected bids Apr. 9, grading 6 mi. Federal Aid Project 214, 42,418 cu.yd. excav., etc. $25,000. Work will be readvertised. Noted Mar. 27.

Wyo., Cheyenne — City Council having plans prepared and will open bids about June 15, improving 4,900 ft. Randall Ave., 44 ft., grading, curbs and paving. $125,000. J. A. Bruce, Cheyenne, engr.

Missouri — State Hy. Dept., Jefferson City, received no bids Apr. 22, grading 17 mi. road, 26 ft., in Carter Co., also 6.105 mi. roads, 34 ft., in Cooper and Morgan Counties. Noted Apr. 17.

Mo., Chillicothe—Soon takes bids grading, concrete curbing, guttering and paving with concrete or brick on concrete 14 blocks 10th, 9th, Normal, Springhill and Walnut Sts. $50,000.

Mo., Kansas City — Jackson Co. soon takes bids repairing 18,490 sq.yd. Independence Rd., concrete, vitr. brick or willite. L. F. Koeler, Kansas City, engr.

Mo., Moberly—Making plans paving, resurfacing, repairing, 40 blocks. Benham

Streets and Roads (Continued)

Eng. Co., 512 Gumbel Bldg., Kansas City, engrs.

Mo., St. Louis—Soon takes bids grading, concrete curbing, guttering and asphalt paving Pine-Lawton and Partridge Ave. cut-off, $25,400, widening 12 blocks Vandeventer Ave., from 60 ft. to 80 ft., $482,586, H. Bartholomew, Municipal Courts Bldg., engr.; grading and paving 2 ft. strip on either side of existing roadway, rearranging curbs, etc. on Watson Rd., $32,000, concrete curbing and paving 10,590 sq.yd. Folsom St., bitulithic, $45,000, concrete curbing, guttering and paving 21,100 sq.yd. Forest Park Blvd., warrenite on concrete, $63,000, W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Ed. Pub. Serv., 208 City Hall, takes bids about July 8, grading and surfacing 16 blocks various streets, 17,500 sq.yd. 7 in. concrete. $50,000. W. W. Horner, 300 City Hall, engr.

Ark., Hot Springs—Soon takes bids grading and surfacing 50,000 sq.yd. various streets, concrete, asphaltic concrete, sheet asphalt, etc. C. Smith, City Hall, engr.

Ark., Little Rock—Making preliminary plans grading and surfacing 18 mi. in Arkansas-Missouri Highway Dist., 18 ft., Bates type concrete. Ford & MacCrea, Gazette Bldg., engrs.

Ark., Little Rock—Soon takes bids grading and surfacing 15,000 sq.yd. Brown St. in Dist. 352, concrete, asphaltic concrete or alternate. V. P. Knott, Southern Trust Bldg., engr.

Ark., North Little Rock — Soon takes bids grading and concrete surfacing 26,000 sq.yd. in Baring Cross Suburb. H. R. Carter, Exch. Bank Bldg., Little Rock, engr.

Tex., Anahuac—Chambers Co., election May 24, $100,000 bonds, roads in Precinct 4. $100,000. J. F. Wilson, co. judge.

Tex., Austin—R. M. Fisher, c/o Koch & Fowler, engrs., Central Bank Bldg., Dallas, having plans prepared paving in new 155 acre addition, here. $25,000.

Tex., Boston—Bowe Co. election soon to vote on $490,000 bonds, hard surfacing roads in Texarkana and Red River sections.

Tex., Cameron—Milam Co. plans gravel surfacing 11 mi. State Highway 36, 16 ft. $129,000. A. F. Mitchell, co. engr.

Tex., Carrizo Springs—Dimmitt Co. making plans grading and shell and gravel surfacing 12.58 mi. State Highway 85, State Aid Project 483, 16 ft. $75,000. J. G. Lott, co. engr.

Tex., Crockett—Rd. Dist. 3, c/o L. L. Moore, judge Houston Co., having plans prepared 4 roads. $240,000. Baker & Von Zuben, Ellison Bldg., Ft. Worth, engrs.

Tex., Dallas—Had plans prepared widening Akard St. from 50- to 70-ft., paving same and miscellaneous condemnation, etc. $120,000. E. A. Kingsley, city engr.

Tex., Dallas—A. L. Stevens, c/o Koch & Fowler, engrs., Central Bank Bldg., having plans prepared paving, curbing and guttering in 300 acre addition west of Kessler Park. $25,000.

Tex., Eagle Lake—Colorado Co. election soon $400,000 bonds, roads. B. H. Faber, Columbus, engr.

Tex., El Paso — Voted $50,000 bonds, grading streets and alleys; $100,000 bonds permanent paving business streets. Address Mayor Dudley. Noted Apr. 24.

Tex., Marlin—Falls Co. election May 24, $115,000 bonds, roads in Rd. Dist. 6. J. P. Wehrung, Lott, engr.

Tex., New Boston — Bowie Co. voted $130,000 bonds constructing State Highways 5 and 8 in New Boston Precinct. F. E. Hess, Medical Arts Bldg., Dallas, engrs.

Tex., Pecos—Reeves Co. making plans grading and caliche surfacing 3.79 mi. State Highway 3, 16 ft. $45,750. A. J. Adcock, Balmorhea, co. engr.

Tex., Rockdale — Rockdale Rd. Dist. voted $75,000 bonds, 14 mi. State Highway 63. A. F. Mitchell, Cameron, engr.

Tex., San Diego—Duval Co. election May 17, $400,000 bonds, hard surfacing State Highway 12. G. A. Parr, co. judge.

Tex., San Marcos — Election May 20, $25,000 bonds, permanent paving streets. Total estimate $75,000. Address A. L. Davis, San Marcos.

Oklahoma—State Hy. Dept., Oklahoma City, plans grading and concrete paving 50 mi. Payne Co., 18 ft., 500,000 sq.yd. concrete, 375,000 cu.yd. excav., $1,000,000, 4 mi. Skiatook Rd., 18 ft., Tulsa Co., 42,000 sq.yd. concrete, 31,000 cu.yd. excav., $125,000, 35 mi. Lee Highway, 18 ft., Stevens Co., 375,000 sq.yd. concrete, 260,000 cu.yd. excav., $400,000, 35 mi. Logan Co., 18 ft., 400,000 sq.yd. concrete, 250,000 cu.yd. excav., $750,000, 35 mi. Nowato Co., 18 ft., 425,000 sq.yd. concrete, 250,000 cu.yd. excav., $500,000. J. M. Page, highway engr.

Okla., Blackwell—Plans grading and paving 13 blocks 8th, 9th and C streets, 15,300 sq.yd. vertical fibrebrick or concrete, 7,800 lin.ft. curbing and 5,100 cu.yd. excav. $63,000. W. Ritzhaupt, Jr., Blackwell, engr.

Okla., Muskogee — Making preliminary plans paving with brick on concrete, asphalt on concrete or asphaltic concrete Honor Heights Blvd. $30,000. J. R. Marsh, City Hall, engr.

Okla., Muskogee — Plans grading and paving 26 blocks Dorchester, L, 26th and Spaulding Sts., 28,500 sq.yd. asphalt or concrete, 13,700 lin.ft. curbing, 5,800 cu.yd. excav. $118,000. J. R. March, City Hal,, engr.

Okla., Nowata—Nowata Co. plans hard-surfacing 35 mi. roads, 425,000 sq.yd. concrete, 250,000 cu.yd. excav. $500,000. J. M. Page, Capitol Bldg., Oklahoma City, engr.

Okla., Muskogee—Soon takes bids grading and surfacing Honor Heights Blvd., brick on concrete, rein.-con. or asphat on concrete. $30,000.

Okla., Okmulgee—Okmulgee Co. election May 19, $400,000 bonds, completion of 25 mi. roads, 260,000 sq.yd. concrete, 175,000 cu.yd. excav. J. W. Page, Capitol Bldg., Oklahoma City, engr.

Okla., Stigler—Plans grading and paving Main and 3rd Sts., 10,000 sq.yd. concrete, 3,100 cu.yd. excav. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Nevada—State Highway Comn., Carson City, making plans gravel surfacing 17.2 mi. Pepuop Summit to Silver Zone, Elko Co., 2.4 mi. in Winnemucca, Humboldt Co., road from Winnemucca to Colconda, Humboldt Co., 10 mi. road across Mormon Mesa, Clark Co., 10.25 mi. from Westgate to Eastgate, Churchill Co., 12.64 mi. Moor to Pepoup Summit, Elko Co.; concrete and gravel surfacing 7 mi. Sparks to Hafed, Washoe Co., 3.2 mi. in Las Vegas, Clark Co. G. W. Borden, state highway engr.

Wash., Auburn—City Council takes bids about May 21, concrete paving 21 blocks in northwestern district. J. A. Fallgreen, Auburn, engr.

Wash., Chehalis—Making plans concrete paving, storm sewers, etc. in Alfred and Lewis Sts., et al. $80,000. E. G. Sturdevant, Chehalis, engr.

California—State Highway Comn., Sacramento, having plans prepared grading highway between Newport Beach and Laguna, Orange Co., to exceed $25,000; 8 mi. Banta to western county line, San Joaquin Co., asphaltic concrete; 4 mi. Fairfield to Rockville, Solano Co., concrete shoulders; 4.3 mi. Greenville to Livermore, Alameda, concrete shoulders; heavy grading 65 mi. in Sacramento Canyon, Tehama Co., incl. 35,000 cu.yd. earth work per mile. R. M. Morton, state highway engr.

California—State Highway Comn., Sacramento, rejected bids improving 1.2 mi. highway between Sea Cliff and Rancho El Rincon, Ventura Co. and constructing seawall. Noted Apr. 10.

Calif., Escondido — Having plans prepared paving various streets in residential section, 2 in. macadam. To exceed $100,000. F. Witt, city engr.

Calif., Eureka — Having plans prepared improving Commercial St., Warrenite-bitulithic pavement and storm sewers; also grading and paving Spring St. $25,000 or more. H. H. Hannah, city engr.

Calif., Eureka—Humboldt Co. having surveys made 2½ mi. Miranda-Salmon Creek Rd. from Blocksburg to Pauls Point. A. J. Logan, co. surv.

Calif., Hawthorne — Plans paving Hawthorne Blvd. from Los Angeles and Redondo Rd. to Short St., 20 ft., 6 in. concrete, culverts, etc., to exceed $150,000; Hawthorne Ave. from Redondo Blvd. to Torrance, 20 ft., 5 in. Willite, $60,000.

Calif., Los Angeles—Having plans prepared paving West Adams St. between Montclair St. and Culver city limits. To exceed $25,000. J. Griffin, city engr.

Calif., Oakland — Appropriated $88,360 opening and improving Jefferson St. between 17th St. and San Pablo Ave. (property owners will pay balance of cost). W. W. Harmon, city engr.

Calif., Oroville — Butte Co. had plans prepared improving Oroville Pentz Rd., Route 22, Sect. E, 25,670 lin.ft. 20 ft. grading, 2,800 cu.yd. crushed rock surfacing; Gridley Colony Rd., Route 3, Sect. B, 2,012 broken stone surfacing, 106 tons asphaltic oil, Grade E. H. H. Hume, co. rd. engr.

Calif., Pomona—Voted $400,000 bonds paving various streets. F. C. Troehde, city engr. Noted Mar. 13.

Que., Lasalle—Plans paving 1,262 ft. St. Patrick Rd., concrete, $10,000, 1,265 sq.yd. Strathyne Rd., Dolminy Terrace, Sterling and Rotheray Aves., bituminous macadam $20,000, grading Bronx Park, $20,000. P. A. Beique, 103 St. Francois Xavier St., Montreal, town engr.

Que., Shawinigan Falls—Election in May to vote on $72,960 bonds concrete pavements on 1st Ave. to Des Hetres St. J. A. Valiquet and E. Bernier, Shawinigan Falls, engrs.

Ont., Brampton — Plans cement pavements on Elizabeth and Frederick Sts. $30,000. C. M. Corkett, City Hall, engr. Prices wanted on materials.

Ont., Mount Forest—Having plans prepared and takes bids about middle of May, concrete pavements on Queen and Main Sts. $60,000. G. G. Reid, City Hall, engr. Prices wanted on materials.

Ont., Toronto—Plans asphalt surface on Robinson St. $8,095, concrete curbs on Cannon Ave. $233, 5,000 sq.yd. concrete pavement on Millwood Rd., $19,310, concrete sidewalks on Brookdale Ave. $2,318, Belsize Dr. $15,871, Coxwell Ave. $3,800, Kennedy Rd. $1,200, Thurston Rd. $5,890, Belcourt Rd. $5,893, Cheston Rd. $5,888, Gresham Rd. $5,890, and Manor Rd. $20,318. R. C. Harris, city engr.

B. C., Vancouver—Election May 31, $200,000 bonds, grading and paving various lanes and streets, also $120,000 for Main St. from Hastings St. to 7th Ave. C. Brackenridge, city engr.

BIDS DESIRED

Maine—May 21, by State Hy. Comn., Augusta, bituminous macadam surfacing 1.77 mi. in Bridgton, 5.24 mi. in Turner, 2.03 mi. Houlton, 4.3 mi. in Gray and 3.5 mi. in New Gloucester; gravel surfacing 4.05 mi. in Orneville and La Grange. P. D. Sargent, ch. engr. Noted May 1.

N. Y., Endicott — C. F. Hunt, village engr., taking bids furnishing and applying 35,000 gal. road oil.

N. Y., New York—May 9, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block paving 10th Ave., West 184th and West 108th Sts.

N. Y., New York—May 15, by Dept. Parks, Municipal Bldg., repaving walks in Melrose Park, Bronx Boro.

N. Y., St. George—May 15, by J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving Richmond Terrace and Bay St., granite block.

New Jersey—May 19, by State Hy. Dept., Trenton, rein.-con. paving, building 1 small span bridge, etc., on Route 7, Sect. 2, Golf Course to Andersons Corner, Monmouth Co. A. L. Grover, secy.; adv. E. N.-R. May 8.

N. J., Trenton—May 16, by City Comn., paving and repaving 21 streets, sheet asphalt and granite block. J. E. English, engr. streets; adv. E. N.-R. May 8.

Pa., Ebensburg — May 19, by Comrs. Cambria Co., 9,100 ft. rein.-con. or brick on Ligonier Pike, 18 ft. wide. L. R. Owen, co. engr.

Pa., Grove City—May 23, by L. L. McKay, boro. secy., paving various streets. F. P. Graham, boro. engr.; adv. E. N.-R. May 8.

Maryland—May 20, by State Rds. Comn., Baltimore, concrete paving highways in Garret, Frederick, Anne Arundel and Worcester Counties, Contrs. G-28, F-76, AA-39 and Wo-32; gravel surfacing highway in St. Marys Co., Contr. SM-27; highway in Baltimore Co., Contr. B-63, alternate bids on sheet asphalt resurfacing and penetration macadam resurfacing. J. N. Mackall, chn.; adv. E. N.-R. May 8.

North Carolina—May 20, by State Hy. Comn., Raleigh, hard surfacing, etc., Projects 107-B, 237-B, 617, 791-B and 812-B, in Betrie, Johnston, Cabarrus, Yadkin and Burke Counties; macadam or sand asphalt paving, etc., Projects 318, 888 and 890 in Brunswick and Yancey Counties; topsoil, sand clay, gravel or grading, etc., Projects 111, 117, 134, 415, 422, 432, 891 and 212, Camden, Currituck, Gates, Durham, Franklin, Granville, Yancey and Craven Counties; bridge Project 580-B, Randolph Co.

Ga., Forsyth—May 16, by Road Commissioners, City Hall, paving, etc., various streets, 22,500 sq.yd. concrete with curbs and gutters, 20,000 sq.yd. sidewalks, 2,000 lin.ft. storm drains. J. B. McCrary Eng. Co., Citizens and Southern Bank Bldg., Atlanta, engrs.

Fla., Gulfport—May 20, by Town Council, W. W. Swift, clk., vitr. brick paving 27,000 sq.yd. Davis Blvd., $67,500, 11,125 sq.yd. Bon Air, Grant, Palm, Shore and 2nd Sts., $27,800, 19,082 sq.yd. Lee Ave., $47,700, 18,760 sq.yd. Sunset Ave., $46,900, 17,452 sq.yd. 3rd St., $43,600, 21,540 sq.yd. Lakeview Ave., $53,800. R. D. Brodie, Gulfport, engr.

Fla., Key West—June 5, by J. O. Kirchheimer, chn. Bd. Comrs. Monroe Co., 4.48 mi. stone surfacing, oiling and subgrading highway, also necessary trestles; adv. E. N.-R. May 8.

Streets and Roads (Continued)

Louisiana—May 22, by State Hy. Comn., Reymond Bldg., Baton Rouge, gravel surfacing State Project 341 C, Arcadia-Natchitoches Highway, Bienville Parish. J. M. Fourmy, ch. engr.

La., Haynesville—May 24, by City Council, grading, concrete curbing and guttering and concrete paving 7 blocks in downtown section.

Kentucky—May 20, by State Hy. Dept., Frankford, **(S. P. means State Project)**, bituminous surfacing 3.07 mi. Lawrenceburg-Chaplin Rd., S. P. 44-B, Anderson Co., 3.9 mi. Lawrenceburg-Kentucky River Rd., S. P. 20-C, Anderson Co., 4.15 mi. Pineville-Magnet P. O. Rd., S. P. 5-S, Bell Co., 14.8 mi. Paris-Winchester Rd., S. P. 32-A, Bourbon Co., 5.12 mi. Grayson-Ashland Rd., S. P. 47-A, Boyd Co., 16.14 mi. Danville-Stanford Rd., S. P. 22-E, Boyle Co., 16.6 mi. Lenoxburg-Germantown Rd., S. P. 57-E and F, Brachen Co., 16.5 mi. Newport-Falmouth Rd., S. P. 21-A and B, Campbell Co., 10 mi. Hopkinsville-Pembroke Rd., S. P. 2-G, Christian Co., 7.7 mi. Winchester-Richmond Rd., S. P. 50-B, Clark Co., 8.09 mi. Cave City-Bowling Green Rd., S. P. 11-H, Edmondson Co., 11.41 mi. Richmond-Irvine Rd., S. P. 29-B, Estill Co., 2.9 mi. Lexington-Georgetown Rd., S. P. 5-H, Fayette Co., 5 mi. Frankfort-Georgetown Rd., S. P. 17-E, Franklin Co., 9.6 mi. Lancaster-Kentucky Rd., S. P. 25-E-1, Garrard Co., 6.12 mi. Greenup-Ashland Rd., S. P. 20-B, Greenup Co., 5 mi. Falmouth-Cynthiana Rd., S. P. 21-E, Harrison Co., 11.15 mi. Munfordsville-Bearwallow Rd., S. P. 11-J, Hart Co., 17.4 mi. Louisville-Taylorsville Rd., S. P. 18-A, Jefferson Co. 6.84 mi. Richmond-Kingston Rd., S. P. 5-K, Madison Co., 4.5 mi. Lebanon-Danville Rd., S. P. 25-B, Marion Co., 1.9 mi. Louisville-Paducah Rd., S. P. 8-S, McCracken Co., 3.85 mi. Paducah-Mayfield Rd., S. P. 9-A, McCracken Co., 10.5 mi. Shakertown-Brooklyn Bridge Rd., S. P. 47-E, Mercer Co., 3.14 mi. Mt. Sterling-Frenchburg Rd., S. P. 32-C, Montgomery Co., 9.14 mi. Mt. Sterling-Paris Rd., S. P. 32-B, Montgomery Co., 14.55 mi. Bloomfield-Lawrenceburg Rd., S. P. 44-A, Nelson Co., 8.3 mi. Carlisle-Sharpsburg Rd., S. P. 61-B, Nicholas Co., 4.8 mi. Falmouth-Covington Rd., S. P. 62-C, Pendleton Co., 2 mi. Georgetown-Frankfort Rd., S. P. 17-F, Scott Co., 3.2 mi. Georgetown-Lexington Rd., S. P. 5-G, Scott Co., 6.5 mi. Shelbyville-Eminence Rd., S. P. 46-D, Shelby Co., 4.34 mi. Hopkinsville-Elkton Rd., S. P. 1-L, Todd Co., 8.3 mi. Mt. Vernon-London Rd., S. P. 5-M, Rockcastle Co., all foregoing 14 ft.; 13.1 mi. Frankfort-Shelbyville Rd., 18 ft., S. P. 17-D, Franklin Co. J. S. Boggs, highway engr.

O., Cambridge — May 23, by Guernsey Co., improving 6 mi. Newcomerstown-Cambridge Rd., 20 ft. $150,000.

O., Cleveland—May 14, paving Castalla Ave. N. E., Durkee Ave. S. E., Hope Court S. W., Iroquois Ave. N. E., Laisy Ave. S. E., St. Catherines Ave. S. E., Train Ave. S. W., East 84th, East 97th, East 100th, East 112th, East 118th, East 123rd and East 139th Sts. $200,000. R. Hoffman, City Hall, engr.

O., Cleveland—May 14, by Cuyahoga Co., paving Lorain Rd. 2. $246,622. F. Lander, Court House, engr.

O., Columbus—May 24, by Franklin Co., guttering and paving 954 ft. bridge, 60 ft., over Scioto River, on Broad St., brick $16,324, sheet asphalt $15,588; brick paving 1,945 ft. bridge and approaches on Mound St., $35,739.

O., Rocky River — May 20, paving 7 streets. To exceed $25,000. E. H. Arnold, Town Hall engr.

Ind., Anderson—May 15, by Comrs. Madison Co., paving R. W. Webb Rd., 14,436 sq.yd. concrete on concrete. $37,531. A. H. Doyle, Anderson, engr.

Ind., Laporte—May 10, by Comrs. Laporte Co., paving 7,761 ft. Gruenke Rd., 18 ft. $36,705. P. Summy, Laporte, engr.

Ind., Rushville—May 10, by Comrs. Rush Co., macadam paving 8,676 ft. James Shannahan Rd., 18 ft. $27,761. F. L. Catt, Rushville, engr. Noted May 1.

Ind., Terre Haute—May 12, by Comrs. Vigo Co., hardsurfacing 11,220 ft. Fromme Rd., 18 ft., $60,483; 12,230 ft. White Rd., 18 ft., $67,364; concrete surfacing 10,560 sq.yd. Bickel Rd., $27,219. R. E. Givens, Terre Haute, engr. Noted May 1.

Michigan—May 14, by State Hy. Dept. at office Comrs. Oakland Co., Pontiac, grading and surfacing 2.25 mi. State Trunk Line Rd. 10-39, Sect. D, 44,217 cu.yd. excav., 53,397 sq.yd. 9 in. concrete pavement.

Michigan—May 19, by State Hy. Dept., at office Comrs. Bay Co., Bay City, grading and graveling 3.598 mi. State Trunk Line Rd. 20-14, 16,700 cu.yd. excav., 38,539 sq.yd. 7 in. concrete pavement, 11,155 lb. steel, etc.

Mich., Springwells—May 13, by B. P. Esper, city clk., paving 42,000 sq.yd. Schaefer Rd. south of Michigan Central Ry., 8 in. concrete with concrete curbs, also 10,500 ft. 12-96 in. vitr., concrete and brick sewers. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, engrs.

Ill., Bement—May 24, by Bd. Supervs. Piatt Co., constructing 4 sections P. C. concrete road, incl. 52,631 sq.yd. with earth shoulders, also 9,949 cu.yd. concrete culverts, etc. W. J. Day, co. supt. highways.

Ill., Chicago—May 12, at office of H. A. Zender, Cook Co. supt. pub. serv., concrete paving road, Sect. L-1. $36,000.

Wis., Wauwatosa—May 16, by Bd. Pub. Wks., A. Brigham, secy., improving Oakhill, Melrose, Grand and Stickney Aves., 54th and 55th Sts., 14,266 sq.yd. rein.-con., bituminous macadam or concrete with Kentucky rock asphalt, 11,640 cu.yd. grading, 11,829 lin.ft. concrete curb and gutter. J. E. Lowther, City Hall, engr.

Ia., Adel—May 14, by Auditor Dallas Co., gravel surfacing and maintenance graveling 10.85 mi. roads, 10,000 sq.yd. gravel, 15,778 "yard-mile" hauling, 153,790 units half mile hauling. To exceed $25,000. E. L. Kaser, co. engr.

Ia., Anamosa—May 14, by D. Stevens, city clk., 23,000 sq.yd. paving, 11,500 lin.ft. concrete curb and gutter. $65,000. M. Tschirgi & Sons, 712 Amer. Trust Bldg., Cedar Rapids, engrs.

Minn., Willmar—May 15, by S. Nelson, aud. Kandiyohi Co., 8 mi. Job 2401, State Rd. 18, between Pennock and Minnesota Trunk Highway 49, 42,597 cu.yd. excav., etc.; regraveling 13 mi. State Aid Rd. 2, between Atwater and Crescent Beach on Green Lake. $27,000. H. L. Wadell, Willmar, engr.

Kan., Independence—May 28, by Clerk Montgomery Co., grading and surfacing with bituminous macadam 2.029 mi. Project 121 Sect. H, 22,220 sq.yd. bituminous macadam, 16,185 cu.yd. concrete, 9,333 lb. steel pipe, etc. H. K. Hibbard, co. engr. Noted Apr. 1.

Kan., Minneapolis—May 29, by Clerk Ottawa Co., grading 7.021 mi. Federal Aid Project 185-A, 34,333 cu.yd. excav., 27,346 lb. reinforcing, 366 cu.yd. concrete, etc. L. R. Miller, co. engr. Noted Apr. 1.

Kan., Oskaloosa — May 16, by Clerk Jefferson Co., grading and surfacing with bituminous macadam, gravel on macadam, waterbound macadam, concrete or brick 7.7 mi. Federal Aid Project 220, Sect. A, 81,952 sq.yd. paving, 15,995 cu.yd. excav., etc., 5.5 mi. Sect. B, 69,525 sq.yd. paving, 20,922 cu.yd. earth and 67 cu.yd. rock excav., etc.; with concrete, bituminous filled brick or bituminous macadam 0.528 mi. Federal Aid Project 222, Sect. D, 10,115 sq.yd. paving, 4,206 lin.ft. curb and gutter, etc., Eidmann & Marshall, Smith Bldg., Topeka, engrs. on foregoing projects; with brick or concrete 0.97 mi. Federal Aid Project 227, Sect. B, 11029 sq.yd. paving, 2,772 lin.ft. curb and gutter, 5,588 cu.yd. earth and 15 cu.yd. rock excav., etc., Dodd & Finney, 216 West 6th St., Topeka, engr.; grading 6.249 mi. Federal Aid Project 222, Sect. A, 55,682 cu.yd. earth and 2,300 cu.yd. rock excav., etc., 7.387 mi. Sect. B, 56,799 cu.yd. excav., etc., 5.275 mi. Sect. C, 43,064 cu.yd. excav., etc., R. C. Ham, co. engr. Noted Apr. 24.

Kan., Wichita—May 31, by Clerk Sedgwick Co., grading and surfacing 1.989 mi. road, 21,775 sq.yd., concrete or bituminous filled brick on 5- or 6-in. concrete, 14,027 cu.yd. excav., 15,359 lb. reinforcing, etc. M. Roseberry, co. engr.

Kan., Wichita—May 31, by clerk Sedgwick Co., grading and paving 1.261 mi. Federal Aid Project 130-C, 13,318 sq.yd. bituminous filled brick or concrete, 4,006 cu.yd. excav., 7,575 lb. reinforcing. M. Roseberry, co. engr. Noted Apr. 1.

South Dakota — May 13, by State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project)**, grading 11.43 mi. F. A. P. 179 Deuel Co., 141,126 cu.yd. excav., 13.49 mi. F. A. P. 160 Brookings-Moody Counties, 108,968 cu.yd. excav., 2.73 mi. F. A. P. 130 B Custer Co., 12,174 cu.yd. excav., 15.08 mi. F. A. P. 172 A, Edmunds Co, 137,633 cu.yd. excav., 15.6 mi. F. A. P. 95 B, Faulk Co, 127,623 cu.yd. excav., 1.52 mi. F. A. P. 173 Faulk Co., 14,225 cu.yd. excav., 11.21 mi. F. A. P. 162 A, Haakon Co., 111582 cu.yd. excav.; graveling 5.12 mi. F. A. P. 49 B and C, Lyman Co., 7,700 cu.yd. gravel, 8.73 mi. F. A. P. 88 B Meade Co., 13,100 cu.yd. gravel, 11.25 mi. F. A. P. 105 A Brown Co., 13,300 cu.yd. gravel, 2.41 mi. F. A. P. 153 Union Co., 7,814 cu.yd. gravel; also following bridges, on F. A. P. 179 Deuel Co., 89.5 cu.yd. concrete, 5,468 lb. reinforcing and 29,500 lb. structural steel, on F. A. P. 160 Brookings-Moody Counties, 327.1 cu.yd. concrete, 33,841 lb. reinforcing and 125,967 lb. structural steel, on F. A. P. 162 A Haakon Co., 469.71 cu. yd. concrete, 67,351 lb. reinforcing and 147,958 lb. structural steel, on F. A. P. 95 B Faulk Co., 42.63 cu.yd. concrete, 4000 lb. reinforcing and 14,745 lb. structural steel. F. D. Hudgins, ch. engr.

South Dakota — May 14, by State Hy. Comn., Pierre, grading **(F. A. P. means Federal Aid Project)** 19.66 mi. F. A. P. 164, Brookings-Moody Counties, 173,730 cu. yd. excav., 18.56 mi. F. A. P. 183 Beadle Co., 128,580 cu.yd. excav., 8.3 mi. F. A. P. 95 C Faulk Co., 53,776 cu.yd. excav., 12.099 mi. F. A. P. 176 Kingsbury Co., 86,210 cu.yd. excav., 4.58 mi. F. A. P. 138 B Meade Co., 23,147 cu.yd. excav., 1.38 mi. F. A. P. 135 B Minnehaha Co., 24,476 cu. yd. excav., 9.98 mi. F. A. P. 158 A Clay Co., 71,469 cu.yd. excav., 14.03 mi. F. A. P. 170 D, Minnehaha Co., 131,941 cu.yd. excav., 22.44 mi. and bridge on F. A. P. 177 A, Pennington Co., 228,260 cu.yd. excav., also following bridges, on F. A. P. 164 Brookings-Moody Counties, 703.29 cu. yd. concrete, 82,915 lb. reinforcing and 189,513 lb. structural steel, on F. A. P. 183 Beadle Co., 344.19 cu.yd. concrete, 61,652 lb. reinforcing and 142,150 lb. structural steel, on F. A. P. 138 B Meade Co., 135.38 cu.yd. concrete, 13,460 lb. reinforcing and 845 lb. structural steel, on F. A. P. 170 D Minnehaha Co., 47.27 cu.yd. concrete, 4,407 lb. reinforcing and 21,053 lb. structural steel, on F. A. P. 158 A, Clay Co., 266.56 cu.yd. concrete, 26,819 lb. reinforcing and 110,970 lb. structural steel, culverts on 21.86 mi. F. A. P. 173 B Faulk Co., and 25.1 mi. F. A. P. 172 C, Walworth Co. F. D. Hudgins, ch. engr.

N. D., Devils Lake—May 12, by J. A. Kramer, aud. Ramsay Co., gravel surfacing 13 mi. Federal Aid Project 153, and grading 12 mi. Federal Aid Project 225, 93,643 cu.yd. excav., etc. $55,000.

N. D., Ellendale—May 16, by C. C. Misfeldt, aud. Dickey Co., grading 6.525 mi. Federal Aid Project 211 A, 51,152 cu.yd. excav., etc. $20,000, also 7.889 mi. Federal Aid Project 212, 74,356 cu.yd. excav., etc. $27,000.

N. D., Stanley—May 15, by F. J. Haines, aud. Mountrail Co., grading 6 mi. Federal Aid Project 248, 48,357 cu.yd. excav., etc. $25,000.

Mont., Shelby—June 2, by A. M. Hart, city clk., concrete sidewalks, etc., in Impvt. Dists. 8, 9 and 11; adv. E. N.-R. May 8.

Mo., St. Louis — May 27, by Bd. Pub. Serv., 208 City Hall, paving 13,300 sq.yd. Bates St., rein.-con., $61,00, 3,500 sq.yd. Oleatha St., concrete, $12,600; granite curbing and paving 10,595 sq.yd. McRee, Macklind, Sulphur and Theodore Sts., brick on concrete, $65,360, 2,445 sq.yd. Tholozan St., Kentucky rock asphalt, $15,720. W. W. Horner, city engr. Noted Apr. 3.

Ark., Hot Springs — May 20, by City Comrs., c/o C. J. Horner, grading and surfacing 22,400 sq.yd. in Street Impvt. Dist. 70, Prospect Ave., concrete or asphaltic concrete. C. Smith, City Hall, engr. Noted Jan. 10.

Ark., Pine Bluff—May 17, by Bd. Impvt. S. C. Alexander, chn., c/o Coleman & Gantt, 615 Citizens Bank Bldg., 17,584 sq. yd. rein.-con., 5,800 cu.yd. earth excav., 10,500 lin.ft. combined curb and gutter, 1,899 lin.ft. 12, 15, 24 and 36 in. storm sewer in Paving Dist. 76. F. Bennett, 410 Citizens Bank Bldg., engr.

Tex., Alice—May 30, by R. R. Muller, judge Jim Wells Co., grading and bridging 14.3 mi. State Highway 12, Federal Aid Project 429-E, 26 ft. $66,745. L. W. S. Mantel, co. engr.

Tex., Alpine—May 29, by J. A. Burke, judge Brewster Co., grading, gravel and caliche surfacing 13.88 mi. State Highway 3, Federal Aid Project 378-D, 18 ft. $68,648. A. L. White, co. engr.

Tex., Austin—May 22, by G. T. Mathews, judge Travis Co., grading 7.85 mi. Austin Webberville Rd., Sects. B and C, 24 ft., also 100 ft. steel truss bridge across Wilbarger Creek, $32,000. O. Leonard, Box 256, co. engr.

Tex., Cameron—May 30, by J. T. Kemp, judge Milam Co., grading, etc., 4.09 mi. State Highway 43, Federal Aid Project 394-B, 28 ft. $33,160. A. F. Mitchell, co. engr.

Tex., Palo Pinto — May 29, by E. L. Pitts, judge Palo Pinto Co., 29,687 sq.yd. vitr. brick paving and 35,624 lin.ft. concrete curbing on State Highway 1. $79,680. G. W. Courter, co. engr.

Okla., Muskogee—May 13, by H. W. Pramer, city clk., paving 10 blocks Denver Ave., 9,700 sqyd. 6-in. concrete, integral curb and gutter.

Idaho—May 15, by Commissioner Pub. Wks., at office of Comrs. Shoshone Co., Wallace, Federal Aid Project 73-A-B and

Streets and Roads (Continued)

64-B, Coeur d'Allene-Yellowstone Rd., 8 acres clearing, 23,378 cu.yd. earth, 18,465 cu.yd. solid rock and 21,800 cu.yd. loose rock excav., 49,187 sta.yd. overhaul, 7,394 cu.yd. crushed rock or gravel surface, 12,846 lb. reinforcing, 173,963 sq.yd. subgrading, 174,323 sq.yd. paving, 8,535 cu.yd. rock shoulders. P. E. Oxley, Lewiston, and D. M. Faires, Wallace, engrs.

Washington — May 20, by State Hy. Comn., Olympia, grading and surfacing with crushed gravel 9 mi. State Rd. 14, from Port Orchard to Gig Harbor, Kitsap Co., 7.6 mi. State Rd. 12, from Adna to Meskill, Lewis Co.; resurfacing with crushed rock 32 mi. State Rd. 2 from Easton to Bide-A-Wee, Kittitas and King Counties. J. Allen, Olympia, state highway engr.

Wash., Centralia—May 13, by City Council, concrete paving in L. I. D. 64, 66 and 65. $60,000. N. W. Avery, Centralia, engr.

California—May 26, by State Highway Comn., Sacramento, paving 4.5 mi. highway between Susanville and Johnstonville, Lassen Co., 4,600 cu.yd. crushed gravel or stone (asphalt macadam), 2,300 cu.yd. crushed gravel or stone (shoulders); 3.5 mi. between Redwood City and southerly boundary, San Mateo Co., 5,500 cu.yd. roadway embankment, 9,520 tons asphaltic mixture (surface), furnishing and applying 62,190 sq.yd. asphaltic paint binder, 12,100 tons broken stone (waterbound macadam base and shoulders), etc.

Ont., Blyth—May 10, by A. Patterson, engr., County Bldg., Goderich, concrete pavements in Queen and Dinsley Sts. $60,000.

Ont., Ottawa—Paterson & Bryon, engrs., Sparks St., Ottawa, taking bids paving Main St. in Westboro and Victoria St. in Eastview, for Carleton Co. $30,000.

BIDS RECEIVED

N. Y., Binghamton—Bd. Contr. & Supply, improving with (a) bitulithic (b) rein.-con. (c) brick (d) concrete (1) Front St. (2) State St. (3) Susquehanna St. (4) Water St., from Municipal Constr. Co., Binghamton, (a1) $24,633 (b1) $23,637 (a2) $61,900 (a3) $54,523 (a4) $14,627; Stento & Serafini, 84 Court St., (c2) $61,396 (d2) $50,299 (c3) $56,608 (d3) $42,957 (d4) $11,478; L. Marseleno, 140 Susquehanna St., (c4) $15,578 (d4) $11,478.

N. Y., Brooklyn—Park Bd., Municipal Bldg., New York, May 1, repairing sheet asphalt pavements on park roads, from Sicilian Asphalt Paving Co., 41 Park Row, New York, $14,075; grading, curbing and paving with sheet asphalt on concrete, Fort Hamilton Parkway, from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $113,278. Noted Apr. 24.

N. Y., New York—Park Bd., Municipal Bldg., May 1, asphalt paving roadway of Central Park, from W. J. Fitzgerald, 547 West 45th St., $27,938; paving and repaving with asphalt mastic Harlem River Dr., from L. DiMinna, 2366 Lorrilard Pl., $13,400. Noted Apr. 24.

N. Y., Syracuse—Bd. Contr. & Supply, paving Oswego Blvd., from G. B. Dickinson, Union Bldg., $26,811.

Pa., Ebensburg—Cambria Co., rein.-con. paving 3,000 lin.ft. Ebensburg-Carroltown Highway, Cambria Twp., from E. R. Vipond-Strite-Moore Co., Altoona, $54,789.

Pennsylvania—State Hy. Dept., Harrisburg, Apr. 23, **(R. means Route and A. means Application)**, R. 187 Allegheny Co., from McCrady Bros. Co., Braddock, $332,615; R. 73 Butler Co., from C. Winters Constr. Co., Renfrew, $101,907; R. 116, Fayette Co., from Swaney & Gilmore, R. F. D. No. 5, Uniontown, $103,528; R. 9, Lackawanna Co., from H. B. Sproul Constr. Co. Inc., 218 Adams Ave., Scranton, $118,992; R. 4, Luzerne Co., from J. M. Boyd, 83 Sharp St., Kingston, $154,960; R. 101, A. 2595, Potter Co., from D. L. Dennis, Eldred, $25,618; R. 175, Northampton Co., from Neely Bros. & Russell, Oxford Ave. and Wakeling St., Phila., $122,005; R. 88, A. 1145, Erie Co., from C. H. Fry Constr. Co., Cherry and 19th Sts., Erie, $197,645; R. 187, Westmoreland Co., from Jeffreys & Hart, 259 Wilson Ave., Beaver, $152,569; R. 52, Somerset Co., from James & Nickolson Co., Inc., 307 Johnstown Trust Bldg., Johnstown, $78,955; R. 14, Susquehanna Co., from H. B. Sproul Constr. Co. Inc., 218 Adams Ave., Scranton, $265,787, R. 146, Montgomery Co., from Union Paving Co., 30th and Locust Sts., Phila., $267,894; bids opened Apr. 29, R. 79, Butler Co. from R. H. Cunningham & Sons Co., 617 Penn Ave., Turtle Creek, $397,701; R. 117, Fayette Co., from C. R. McIntyre, Fairchance, $89,660; R. 140 Schuylkill Co., from Crawford Co., 3056 K St. N. W., Wash., D. C., $270,786; A. 143 Westmoreland Co., from R. H. Cunningham & Sons Co., 617 Penn Ave., Turtle Creek, $198,813; A. 523 York Co., from Comerford Constr. Co., 125 South 5th St., Phila., $108,331; R. 189, Armstrong Co., from L. H. Hileman Constr. Co., 217 First Natl. Bank Bldg., New Kensington, $324,755; A. 2659, Bucks Co., from Ross & Whelan Inc., 471 Southard St., Trenton, N. J., stone $43,778, gravel $39,595; A. 2577 Clarion Co., from F. S. Wilson, Kittanning, $146,355; A. 563, Fayette Co., from M. Barber, 180 Henry St., Binghamton, N. Y., $48,058; R. 88, Erie Co., from H. E. Bunce, 125 Fulton St., Olean, N. Y., $247,151; A. 2018, Monroe Co., from Ward & Tully Inc., 189 Montague St., Brooklyn, N. Y., $77,134. Noted Apr. 10.

Delaware—State Hy. Dept., Dover, improving 1.91 mi., Contr. CN-14, Walker-Deakyneville Rd., from Stewart & Donohue, 14th and Grant Sts., Wilmington, (a) stone concrete $77,367 (b) slag concrete $79,947 (c) waterbound macadam $70,445 (d) penetration macadam $84,345 (e) amiesite $84,345; 3.3 mi. Contr. CS-25, Pepper-Lowes Cross Rds., from Field, Barker & Underwood, Commercial Trust Bldg., Phila., (a) $112,758 (b) $108,198 (c) $103,673 (d) $117,027. Noted Apr. 10.

Kentucky — State Hy. Dept., Frankfort, grading, shaping and surfacing 6.5 mi. Somerset-Stanford Rd., Lincoln Co., from Hughes & Ware, Lancaster, 13,000 cu.yd. excav. $0.45 per cu.yd., 16,250 tons crushed limestone $2.75, 200 cu.yd. Class A concrete $21, 60 cu.yd. Class B $23, etc., total $62,517.

O., Cleveland—Improving Cedar Ave., 11,780 lin.ft. granite or stone curb, 7,500 cu.yd. 4 in. drain tile gutter, 17,648 sq. yd. (a) asphalt or (b) brick on concrete, from Cleveland Trinidad Paving Co., The Arcade, (a) $114,005; Bentley Bros., 1836 Euclid Ave. (b) $124,662. Noted Apr. 10.

Michigan — State Hy. Dept., at office Comrs. Lapeer Co., Lapeer, grading and surfacing 1.244 mi. State Trunk Line Rd. 36-4, 7,660 sq.yd. concrete, 6,340 sq.yd. gravel, from Rowe Constr. Co., Sebewaing, $27,596. Noted Apr. 10.

Michigan — State Hy. Dept., at office Comrs. Leelanau Co., Leland, 2.992 mi. State Trunk Line Rd. 22-16, D, 28,436 sq. yd. gravel, and 30,292 cu.yd. excav., and 3.106 mi. State Trunk Line Rd. 22-13 A, 29,156 sq.yd. gravel and 23,194 cu.yd. excav., from Leelanau Co. Rd. Comn., Leland, $25,144 and $26,421 respectively. Noted Apr. 10.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and surfacing 0.723 mi. State Trunk Line Rd. 14-15, Sect. A, Ingham Co., 8,676 sq.yd. concrete, from Hudson & Coons, Bennington, $24,389. Noted Apr. 3.

Michigan—State Hy. Dept., at office Comrs. Monroe Co., Monroe, grading and surfacing 4.197 mi. Federal Aid Project 50, B 2 and 4, 49,185 sq.yd. concrete, from W. H. Knapp Co., Monroe, $90,630. Noted Apr. 17.

Michigan — State Hy. Dept. at office Comrs. Berrien Co., St. Joseph, grading and surfacing 1.236 mi. State Trunk Line Rd. 58-5, 13,671 sq.yd. concrete, from States Improvement Co., 220 South State St., Chicago, $36,524. Noted Apr. 3.

Michigan — State Hy. Dept., at office Comrs. Oakland Co., Pontiac, grading and surfacing 4.746 mi. Federal Aid Project 97 A, 3.25 mi. State Trunk Line Rd. 10-41, and 0.648 mi. State Trunk Line Rd. 10-37 A, Oakland Co., from Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, $104,139, $75,056 and $18,393 respectively. Noted Apr. 10.

Michigan — State Hy. Dept., at office Comrs. Ottawa Co., Grand Haven, shaping and surfacing 1.502 mi. State Trunk Line Rd. 11-71, Ottawa Co., 1,500 tons bituminous binder, 15,861 sq.yd. bituminous concrete wearing surface, from Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, $34,143. Noted Apr. 10.

Michigan — State Hy. Dept., Lansing, grading and gravel surfacing 7.204 mi. State Trunk Line Rd. 43-1, Barry Co., from C. Reger, Clare, $102,041; 5.508 mi. State Trunk Line Rd. 18-13, Midland Co., from R. H. Macwell & Owens, Hope, $27,984. Noted Apr. 3.

Michigan — State Hy. Dept. at office Comrs. Berrien Co., St. Joseph, grading and surfacing 5.91 mi. State Trunk Line Rd. 58-4, 62,408 sq.yd. concrete, from Woodley Granger Constr. Co., Benton Harbor, $134,354. Noted Apr. 17.

Mich., Detroit—Paving with 3½ in. sheet asphalt on 8 in. concrete, from Detroit Asphalt Paving Co., 909 Free Press Bldg., 2,900 sq.yd. Bulwer Ave. $15,824, 1,850 sq.yd. Calvert Ave. $9,986, 3,050 sq.yd. Milner Ave. $16,210. 820 sq.yd. Sylvester Ave. $4,901 1,700 sq.yd. Torrey St. $10,141. 1,600 sq.yd. Weitzel Court $9,362; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 4,800 sq.yd. McFerson Ave. $24,774.

Wis., Milwaukee—Concrete paving various alleys, from F. W. Blodgett, 521 Newton Ave., under specifications 1, 3, 4 and 5, $20,687; from Parkinson Constr. Co., 322 27th St., under specifications 2, 7 and 8, $6,640; from Kroening Constr. Co., 39th Ave. and Mitchell St., specification 6, $15,447. Noted Apr. 24.

Wis., Milwaukee—Paving, etc., (1) 8th Ave. (2) 56th St. (3) Franklin St. (4) North Ave. (5) State St. (6) 3rd St. (7) Townsend St. (8) 29th Ave. with (a) asphalt and brick (b) asphaltic concrete (c) one course concrete (d) vibrolithic concrete (e) sandstone or granite block (f) asphalt resurfacing, from Badger Constr. Co., 97 Wisconsin St., (1a) $19,041 (2b) $21,052 (2c) $21,793 (2d) $21,140 (3b) $31,339 (4b) $16,092 (6f) $23,507 (7b) $26,090 (8b) $26,142; from J. Bluhm & Son, 1298 Achilles Pl., (3c) $29,179; from Milwaukee General Constr. Co., 427 Mitchell St., (4d) $14,650 (4e) $14,119; from R. Gumz, 831 13th Ave., (5e) $3,577 (8c) $25,254 (8d) $24,584; from A. Retzloff, 868 Island Ave., (3d) $28,912 (7d) $25,514; from Tallmadge, Hunt Constr. Co., Colby-Abbott Bldg., (7c) $25,820.

Missouri — State Hy. Dept., Jefferson City, Apr. 22, grading 4.827 mi., 1.89 mi. and 4.215 mi. road from Boonville west, 34 ft., Cooper Co., from Haller & Davis, Boonville, $23,234, $19,431 and $49,761 respectively, 4.204 mi., 3.865 mi. and 4.055 mi. road from Odessa east, 34 ft., Lafayette Co., from L. A. Woods Constr. Co., Smithville, $38,757, $40,405 and $26,582 respectively, 4.793 mi. road from Marshfield north and west and 4.994 mi. road from Marshfield west both 34 ft., Webster Co., from C. E. Johnson & Son, Buffalo, $33,856 and $40,400 respectively, 4.951 mi. road from Washburn south, and 3.314 mi. road from Seligman north and south, both 30 ft., Barry Co., from Kelly & Underwood, Granby, $24,803 and $17,243 respectively, 3.386 mi. Linneus-Laclede Rd., 30 ft., Linn Co., from C. P. O'Reilly & Co., Wainright Bldg., St. Louis, $24,280, 1.15 mi. road from Greenfield south, 26 ft., Dade Co., from Critser & Sons, Miller, $8,537, 2.301 mi. road from Houston south, 24 ft., Texas Co., from Lowing & Lingo, Amy, $8,296, 4.05 mi. road from Odessa east, Lafayette Co., from H. H. Hanenkratt, 53rd and Brooklyn Sts., Kansas City, $22,453, 3.856 mi. road from Odessa east, 34 ft., Lafayette Co., from A. Hood, Independence, $31,221, 3.811 mi. road from Marshall south, 34 ft., Webster Co., from Bryant-Rollins Road Co., Waynesville, $25,386, 3.892 mi. road from Marshfield north, 34 ft., Webster Co., from M. E. Gillioz, Monett, $32,300, 4.883 mi. road from Concordia east and west, 34 ft., Lafayette Co., from A. W. Mosley, Kansas City, $32,023; grading and graveling 5 mi. Stockton-Fairfax Rd., 12 ft., Cedar Co., from Newton Constr. Co., California, $28,970 1.94 mi. road from Perryville north, 16 ft., Perry Co., from H. A. Worman, Pittsfield, Ill., $23,792, 1.136 mi. Paris-Shelbina Rd., 16 ft., Monroe Co., from C. C. Hayward, Shebina, $7,939, 0.634 mi. road from Otterville west, 18 ft., Morgan Co., from Cole Jobe, Clarksburg, $7,687, 4.553 mi. road from Syracuse east and west, 18 ft., from F. Kersting, Jefferson City, $62,418, 1.666 mi. road from Fredericktown west, 12 ft., Madison Co., from W. A. Reynolds, Marble Hill, $21,102; graveling 2.758 mi. road from Cole Camp west, 12 ft., Benton Co., from C. L. Johnson, Warrensburg, $15,888, 4.019 mi. road from Kahoka east and west, 16 ft., Clark Co., from Layton Constr. Co., Muscatine, Ia., $23,336. Noted Apr. 17.

Tex., Liberty—Liberty Co. (a) grading, etc., (b) gravel surfacing (c) rein.-con. drainage structures and timber piling, on 4.16 mi. State Highway 35, Federal Aid Project 426-A, from C. Vick, Cleveland, (a and b) $20,693; R. B. Sparks, Gaston Bldg., Dallas, (a, b and c) $34,906; E. E. Board, Livingston, (c) $5,017. Engrs. est. $41,654 incl. 10% for engineering and contingencies. Noted Apr. 3.

Tex., San Antonio—Bexar Co. graveling portion St. Hedwig Rd., from C. M. Kelly, 609 Nolan St., $2.40 per yd.; topping same, from Alamo Paving Co., San Antonio $0.49. Engrs. est. $35,000. Noted Apr. 10.

Colorado — State Hy. Dept., Denver, gravel surfacing 12.046 mi. Federal Aid Project 248-A, Chaffee Co., from Western Constr. Corp., 33rd and Blake Sts., Denver, $93,534. Noted Apr. 17.

Calif., Gilroy—Improving various streets, Warrenite pavement, from Southwest Paving Co., Washington Bldg., Los Angeles, $465,000. Noted Apr. 24.

Calif., Glendale—Improving Sonora and 5th St., from E. L. Fleming, 324 West Dry-

Streets and Roads (Continued)

den Ave., 274,600 sq.ft. grading $0.05, 8,540 lin.ft. curb $0.50, 4,596 lin.ft. 8 in. vitr. sewer $1, 149,650 sq.ft. 3 in. macadam $0.105, 38,370 sq.ft. walks $0.17, total $40,000. Noted Apr. 24.

Calif., Los Angeles—Improving Canoga Ave. between Ventura Blvd. and Drumetz Rd., from G. R. Curtis, 2440 East 26th St., grading $90,000, 26,519 ft. heavy curb $0.75, 283,262 sq.ft. walks $0.25, storm drains $1,500, 30,887 ft. light curb $0.65.

Tex., Sanderson—Terrell Co. grading and gravel surfacing 12.48 mi. State Highway 12, Federal Aid Project 324-B, 2,518 cu.yd. concrete, 29,306 cu.yd. roadway, 63,317 cu. yd. borrow, 33,014 cu.yd. solid and 16,590 cu.yd. loose rock excav., 29,681 cu.yd. gravel, etc., from F. P. Holt, Sanderson, $185,978. Noted Apr. 3.

Calif., Stockton — Improving Willow, Walnut, Harding Sts., etc., from C. Moreing, Savings & Loan Bldg., 8,380 cu.yd. cut $0.60, 12,588 lin.ft. walks, $0.20, 197,486 sq.ft. 4 in. crushed rock with 2 in. asphaltic macadam surface $0.13, total $59,500.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, grading, curbing and flagging Clarendon Rd., to T. B. Scott, 671 Halsey St., $2,874; grading sidewalk space, curbing and flagging Quentin Rd., to G. Mandatto, 129 29th St., $2,016, 80th St., to R. Lynster, 1364 Sterling Pl., $1,085; grading 60 ft. width centrally located Empire Blvd., to C. Bennett Contg. Co., 414 Rutland Rd., $29,820; asphalt paving West 37th St., to M. J. O'Hara, 1228 Park Ave., New York, $7,565. Noted Apr. 17.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Cranford Co., 52 9th St., asphalt paving Bay 37th St. $6,387, Quentin Rd. $5,141, 56th St. $8,472, 78th St. $10,131, 81st St. $6,716; to Interstate Paving Co., grading, curbing and flagging East 7th St. $5,005; to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., asphalt paving East 7th St. $10,896, Ave. M $3,225, curbing and asphalt paving East 9th St. $7,035, recurbing and asphalt paving East 35th St. $13,682; to Cleveland Trinidad Paving Co., Flushing, asphalt paving Elderts Lane $9,311, Hubbard Pl. $6,864; to F. C. Cohart, grading Shepherd Lane $8,797; to Grimm Contg. Co., 170 McKinley St., grading, curbing and flagging Shepherd Ave. $6,150; to Galco Contg. Co., grading, curbing and flagging 81st St., $3,072. Noted May 1.

N. Y., Canton — St. Lawrence Co. will pave with bitulithic macadam 5 mi. Hermon-Edwards Rd., 14 ft., $88,271, 2 mi. Brasher Falls-Helena Rd., 12 ft., $32,390, 3.1 mi. Plumbrook Rd., 10 ft., $34,044, 0.34 mi. Brasie Corners-Rossie Rd., $13,722, Madrid-Potsdam Rd., $88,533, and 3.15 mi. Stone Schoolhouse Clare Rd., $22,891, by day labor under supervision of W. F. Willson, co. highway supt.

N. Y., Letchworth Park (Portageville P. O.)—Letchworth Park Com. of Amer. Scenic & Historic Preservation Society, at Wyoming Co. Natl. Bank, Warsau, constructing highway here, to Lathrop, Shea & Henwood, Ellicott Sq., Buffalo, $19,157. Noted Apr. 3.

N. Y., New Hartford — Paving Allport Pl., Hartford Terrace, Hillside Ave. and Pearl St., to H. W. Roberts & Co., 622 Parkway St., Utica, $65,996. Noted Apr. 3.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving West Bway., to J. Meehan & Son, 74 Cortlandt St., $110,395; curbing, recurbing, flagging, reflagging and asphalt paving West 174th and West 175th Sts., to Asphalt Constr. Co., 208 Bway., $9,883 and $8,880 respectively. Noted Apr. 24.

N. Y., Perry—Bd. Supervs. Wyoming Co. will construct highways, by day labor. To exceed $300,000.

N. Y., Plattsburg—Common Council will resurface portions Court, Brinkerhoff, Beekman, Cornelia, Rugar and Riley Aves., by day labor, under supervision of T. G. Burke, supt. streets, $50,000. Noted Apr. 10.

N. Y., Schenectady—Bd. Supervs. Schenectady Co. will improve 9 highways by day labor under supervision of H. W. Cregier, highway supt. $81,000.

N. Y., Syracuse—Bd. Contr. & Supply, paving Clinton Sq., to F. J. Baker, University Blk., $31,538.

New Jersey—State Hy. Dept., Trenton, 2 small bridges and concrete paving 41,215 sq.yd. Route 7, Sect. 3, Anderson Corner to Colts Neck, Monmouth Co., to Union Paving Co., 30th and Locust Sts., Phila., $193,440; 78,440 sq.yd. Route 6, Sect. 10, Marlboro to Quinton, Salem Co., to M. Staub, Main St., Pitman, $278,990. Noted Apr. 10.

Pennsylvania—State Hy. Dept., Harrisburg, 36,690 sq.yd. Route 208, Application 2296, Venango Co., to Jamieson & Narlee Co., Fredonia, $219,790; 51,000 sq.yd. Route 185, Sect. 1, Schuylkill Co., to J. A. Rudolph, 27 Pine St., Tamaqua, $252,922; 36,722 sq.yd. Route 99, Sect. 2, Cameron Co., to W. A. Palmer, 431 East North St., Bethlehem, $209,482; 39,884 sq.yd. Application 2779 Mercer Co., to Meredith, McVaugh & Webb, 1409 West 10th St., Erie, $161,456; 73,780 sq.yd. Route 212, Sect. 5, Bradford Co., to Horn & Devlin, Athens, $371,333. Noted Apr. 10.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. on 22,780 sq.yd. Route 74, Mercer Co., to Meredith, McVaugh & Webb, 1409 West 10th St., Erie, $98,575, 19,877 sq.yd. Route 146, Montgomery Co., to McNichol Paving & Constr. Co., 1923 Cherry St., Phila., $78,845, 10,906 sq.yd. Route 307, Application 2712 Centre Co., to P. N. Colgan Inc., Lewistown, $51,551. Noted Apr. 10.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)** 80,276 sq.yd. concrete on R. 365, Lackawanna-Wyoming Counties, to Public Service Production Co., Newark, N. J., $385,349; 22,515 sq.yd. R. 73, Butler Co., to C. Winters Constr. Co., Renfrew, $101,907; 40,700 sq.yd. R. 187, Allegheny Co., to McCrady Bros., Braddock, $332,615; 44,980 sq.yd. R. 121, Huntingdon Co., to J. M. Hutchinson, Altoona, $282,317; 57,100 sq.yd. R. 216, York Co., to W. Grant Raub, Red Lion, $234,147; 77,500 sq.yd. R. 63, Sect. 2, Indiana Co., to Johnson, Drake & Piper, Erie, $376,473; 22,200 sq.yd. R. 187, Sect. 2, Westmoreland Co., to Jeffreys & Hart, Beaver, $152,569; 19,832 sq.yd. R. 9, Lackawanna Co., to H. B. Sprull Constr. Co., 218 Adams Ave., Scranton, $118,992; 20,280 sq.yd. R. 116, Sect. 3, Fayette Co., to Swaney & Gilmore, R. F. D. 5, Uniontown, $103,528.

Pa., Phila. — Bureau Highways, Dept. Pub. Wks., paving to Eastern Paving Co., 401 Colonial Trust Bldg., 2,286 sq.yd. Almond, Livingston, Mercer, Salmon and Tilton Sts., $10,747; 6,740 sq.yd. Callowhill St. $31,611; to Barber Asphalt Paving Co., 239 North 30th St., 1,643 sq.yd. Marlborough St. $7,926, 4,796 sq.yd. Victoria and 23rd Sts. $16,430; to J. F. Nolen & Sons, 64 Church Lane, 3,620 sq.yd. Baynton St. $15,517, 2,206 sq.yd. Glenwood St. $11,041; to Mazzola & Murano, 414 North Gross St., 2,549 sq.yd. Cherry, Hicks and Spring Sts., $14,800; to Dunlap & Williams, Ridge and Girard Aves., 3,664 sq.yd. Walnut and 2nd Sts. $17,156, 7,324 sq.yd. 12th St. $33,606; to M. J. McCrudden, Real Estate Trust Bldg., 5,204 sq.yd. 58th St. $28,654; to United Paving Co., Real Estate Trust Bldg., curb and footway work in 1st Dist. $15,499; to J. J. McHugh, 1617 Race St., curb and footway work in 2nd Dist. $7,544; to Atlantic Refining Co., 260 South Broad St., 191,100 gal. bituminous material $31,576; to Sun Oil Co., Finance Bldg., 25,000 gal. oil $1,875. Noted May 1.

Pa., Phila. — Bureau Highways, Dept. Pub. Wks., repaving with redressed granite block 11,801 sq.yd. Frankford Ave. and 4,315 sq.yd. 16th St., to Eastern Paving Co., 401 Colonial Trust Bldg., $52,931 and $20,203 respectively; 12, 445 sq.yd. Ridge Ave., 7,946 sq.yd. 2nd Ave., and 9,655 sq. yd. 7th St., to Municipal Paving Co., 632 Kater St., $63,614, $35,433 and $41,785 respectively; 7,993 sq.yd. 5th and 6th Sts., 7,245 sq.yd. 10th St. and 11,804 sq.yd. 13th St., to United Paving Co., 833 Real Estate Trust Bldg., $35,101, $33,586 and $41,929 respectively.

Pa., Phila.—G. H. Biles, dir. pub. wks., City Hall, paving and curbing Delaware Ave. from Porter to Oregon Sts., to Acchione & Canuso Paving Co., 804 Soutn 12th St., $166,431. Noted May 1.

Maryland—State Rds. Comn., Baltimore, concrete paving 1.48 mi. highway in Frederick Co., Contr. F-70, to M. J. Grove Lime Co., Lime Kiln, $49,791, 1.97 mi. highway in Talbot Co., Contr. T-18, to L. Slacum, Cambridge, $53,082, 1 mi. in Harford Co., Contr. H-32, to G. J. Atkinson, Port Deposit, $30,730; macadam resurfacing 6.36 mi. highway in Washington Co., Contr. W-31, to Bester Long Co., Hagerstown, $96,583. Noted Apr. 24.

Md., Baltimore — Bd. Awards, streets listed in Contr. 254-OANA, 22,085 sq.yd. cement concrete, to Aiello Constr. Co., Gough and 4th Sts., $58,615; streets listed in Contr. 255-OCNA, 18,240 sq.yd. cement concrete, to Arundel Constr. Co., Knickerbocker Bldg., $48,042. Noted May 1.

W. Va., Buckhannon—Upshur Co., grading and surfacing 6 mi. road in Meade Dist., to Phillip & Withers, Buckhannon, $151,240.

W. Va., Huntington—Widening and paving Piedmont Rr., to J.M. Randisch & Co., 424 4th Ave., $64,333. Noted Apr. 17.

W. Va., Williamson—Mingo Co., grading Marrowbone Creek Rd., Project 17, to E. C. Price, Huntington, $42,390; Buffalo Creek Rd., Project 24, to B. Wellman, Logan, $26,321. State and Mingo Co. grading and bituminous surfacing Nagatuck-Nolan Rd., Project 3298, to Sutton Constr. Co., Ashland, Ky., $93,833. Bids rejected on Marrowbone-Kermit Rd., Project 3298. Noted Apr. 10.

Fla., Crystal River—Improving Citrus Ave., Crystal and B Sts., 1,100 cu.yd. grading, 7,500 sq.yd. paving, 5,800 lin.ft. curb and gutter, to Barnes & Smith, Crystal River, $36,000.

Fla., Fort Myers—To T. G. Yeates Co., Citrus Exch. Bldg., Tampa, paving vitr brick on shell base, asphalt grouting, 25,000 sq.yd. portion McGregor Blvd., Boy, Carson and Monroe Sts., $100,000, 30,000 sq.yd. 2nd Ave., Anderson and Evans Sts., $110,500, 15,000 sq.yd. Hendry and Jackson Sts., $55,000, 20,000 sq.yd. Lee, Peck and Garret Sts. also alley, $65,500.

Fla., Fort Myers—Lee Co., to Morgan-Hill Paving Co., 514 Graham Bldg., Jacksonville, paving 2½ in. bituminous macadam, 6.83 mi. Sect. 3 $91,042, 0.51 mi. Sect. 2-A $42,568, 10.02 mi. Sect. 2 $136,889, 7.99 mi. Sect. 1 $110,182, 4 mi. Sect. 7 $60,796, 11.37 mi. Sect. 5 $267,857; shell surfacing 4.72 mi. Sects. 6-A and 6-B $65,144; marl base on 11.117 mi. Sect. 6 $50,344; 11.93 mi. Sect. 4 $279,338. Noted Mar. 27.

Fla., St. Petersburg—City, 400,000 sq. yd. new and 90,000 sq.yd. relay pavement, 210,000 lin.ft. granite curb, to Georgia Eng. Co., Augusta, Ga., $1,500,000.

Fla., Starke—Bradford Co., improving highway, to Adams & Sanders, Madison, clearing, etc., 207 acres $60, 77,645 cu.yd. excav. $0.34, road machine grading 1,822 sta. $6, road machine grading sand clay section 438 sta. $2, 8,512 lin.ft. untreated piling $1.20, 182,500 ft. untreated structural timber $65 per M, 8,966 cu.yd. clay surfacing material $0.62, mixing and shaping 80,630 sq.yd. sand clay surface $0.62. Noted Mar. 6.

Miss., Greenwood — Improving various streets, 54,244 sq.yd. 3 in. fibre brick on concrete, 19,953 cu.yd. excav., 24,698 lin. ft. straight curb, 2,970 lin.ft. circular curb, 2,300 lin.ft. 15- to 24-in. concrete sewer pipe, etc., to E. A. Finch, Greenwood, $208,706.

Tenn., Nashville — Bd. Pub. Wks. will gravel, oil and surface treat 5 or 6 mi., incl. Murphy Rd., Leshey, 5th, 17th, Fatherland, 12th, Ridley, Meridian and Arthur Aves. Work will be done by city forces. W. W. Southgate, city engr.

Tenn., Paris—State Dept. Hys. & Pub Wks., Nashville, asphalt surfacing 20 mi. Paris-Carroll Co. Rd., 16 ft., Henry Co., to S. Finley & Co., 212 West North Ave., Atlanta, Ga., $100,000. Noted Nov. 1.

O., Akron—Dept. Pub. Serv., grading, curbing, laying sewers and paving, etc., 4,550 sq.yd. Palmer St., brick pavement, asphalt filler, 6 in. base, to McAlonan Bros., 127 West Buchtel Ave., $34.329.

O., Akron—W. F. Peters, dir. Pub. Serv., paving Lexington Ave., to T. E. McShaffrey Constr. Co., 171 South Forge St., $27,032. Engrs. est. $30,000. Noted Apr. 3.

O., Cleveland — City, to Roehl Bros. Paving & Constr. Co., 7002 Lorain Ave., improving Gifford Ave. $21,380, Wentworth Ave. $14,587, West 59th St. $22,577, West 20th St. $6,230, work involves 8,205 lin.ft. stone curb, 9,473 lin.ft. 4 in. drain tile gutter, 12,775 sq.yd. vitr. brick; to Gould & Maybach, 16315 Saranec Rd., improving East 143rd St., 1644 ft. stone curb, 1,680 lin.ft. 4 in. drain tile gutter, 2,235 sq.yd. concrete $9,642; to Baldwin Bros., 4500 Euclid Ave., improving Forest Ave., 2,850 lin.ft. stone curb, 3,030 lin.ft. 4 in. drain tile, 4,540 sq.yd. brick, $26,090; to Cleveland Trinidad Paving Co., The Arcade, asphalt paving 1,440 sq.yd. West 4th St., $5,310, granite curbing and asphalt paving 17,648 sq.yd. Cedar Ave., $116,829.

O., Cleveland—Cuyahoga Co. vitr. brick paving Kinsman Rd. 6, to Lake City Constr. Co., 1624 Discount Bldg., $245,189.

O., East Cleveland (Cleveland, P. O.)—Asphaltic concrete paving, curbing and guttering Hayden Ave. from Doan to Lakefront Aves., also Lee Rd., to Rieley Bros., The Arcade, Cleveland, $39,986 and $40,076 respectively; Hayden Ave. from Doan Ave. to Woodworth Rd., to Freshwater Constr. Co., Natl. Bldg., Cleveland, $60,643.

Ind., Goshen—Elkhart Co., grading and gravel surfacing 24,600 ft. County Unit Rd. 8, 24 ft., to J. Stump, Nappanee $27,155. Engrs. est. $43,310. Noted Apr. 3.

Streets and Roads (Continued)

Ind., Indianapolis — Marion Co., paving 16,774 ft. East 10th St., 18 ft., to McCoun Constr. Co., Cumberland, $81,491. Engrs. est. $87,226. Noted May 1.

Ind., South Bend—Curbs and sidewalks on Ewing Ave., to H. L. Davis & Son, South Bend, $40,022. Engrs. est. $45,260.

Ind., South Bend—St. Joseph Co., resurfacing 211,866 sq.yd. Dixie Highway, to Highways Impvt. Co., South Bend, $29,663. Engrs. est. $34,483.

Ind., Sullivan—Sullivan Co., grading and gravel surfacing 11,195 ft. J. I. Adams Rd., 18 ft., to G. Unger, Carlisle, $26,194. Engrs. est. $32,382. Noted May 1.

Ind., Winchester—Randolph Co., paving 14,080 ft. Marion Hill Rd., 18 ft., to J. L. Teegarden, Union City, $74,450. Noted May 1.

Michigan — State Hy. Dept., Lansing, grading and surfacing 0.893 mi. State Trunk Line Rd. 29-4, Calhoun Co., to Dovey & Klosterman, Batavia, $25,173; 0.999 mi. State Trunk Line Rd. 47-5, Shiawassee Co., to Taylor Constr. Co., Birmingham, $29,809; 3.187 mi. State Trunk Line Rd. 17-14, Van Buren Co., to Kalamazoo Paving Co., Kalamazoo, $81,440. Noted Apr. 24.

Michigan — State Hy. Dept., at office Comrs. Chippewa Co., Saute Ste. Marie, grading and surfacing 2.207 mi. State Trunk Line Rd. 48-6 B, Chippewa Co., to J. Cottle, Rudyard, $22,274. Noted Apr. 3.

Ill., Dwight—Grading and paving North, Seminole, Franklin, Washington Sts., etc., to Hartman-Clark Bros., Dwight, $118,825. Noted May 1.

Ill., Harvey — J. A. Alton, secy. Bd. Local Impvts., 40,000 sq.yd. concrete paving and 20,000 lin.ft. curb and gutter, Specials 152 to 158 inclusive, to G. H. Summerville, Chicago Heights, $130,668; Special 166 to Foley & Riley, 38 South Dearborn St., Chicago, $14,628. Noted Apr. 10.

Ill., Taylorville—Paving Vandeveer St., to Alzina Constr. Co., Unity Bldg., Springfield, 3,575 cu.yd. excav. $0.65, 5,022 lin. ft. curb and gutter $1.15, 5,225 sq.yd. brick paving $3.83 per sq.yd., etc., total $28,624.

Wisconsin — State Hy. Comn., Madison, grading and surfacing, etc., Stevens Point-Wausau Rd., Project 38, Marathon Co., to Hayes Bros., Janesville, 25,994 cu.yd. earth excav. $0.65, 85,377 sq.yd. concrete surfacing $1.18, etc., total $134,751. Noted Apr. 10.

Wis., Elkhorn—Walworth Co. concrete surfacing, etc. Burlington-Lyons Rd., to Whitewater Bridge Co., Whitewater, $53,731; 7,000 cu.yd. gravel surfacing on Lake Geneva-Kenosha Co. line Rd., to P. Berg, Cambridge, $1.29 per cu.yd.

Wis., Hudson—Paving, etc., 8,956 sq.yd. various streets, brick, to Welch Paving Corp., 703 1st Natl.-Soo Line Bldg., Minneapolis, Minn., $37,678. Noted Apr. 17.

Wis., Madison — Dane Co. Hy. Comn., grading and graveling Madison-Lake Milis Rd., to Kutzke & Gallagher, Oregon, $46,990, Verona-Mt. Vernon Rd., to E. J. Smith, Blue Mounds, $14,634, State Trunk Highway 8a, to Mickels & Gallagher, Madison, $5,438, West St., Village Oregon, to R. H. Peterson & Son, Oregon, $2,806, Albion Deerfield, London-Cambridge and Sun Prairie-Cottage Grove Rds., to H. Johnson, Albany, $13,818, $7,581 and $19,498 respectively; grading and concrete surfacing State Trunk Highway 19, Village Blue Mounds, to J. L. Frame, Blue Mounds, $2,699.

Wis., West Allis—Paving 92,000 sq.yd. various streets, vibrolithic-concrete, to R. Reisinger & Co., 464 Oakland Ave., Milwaukee, $2.40 and $2.43 per sq.yd. Noted Apr. 24.

Ia., Allison—Butler Co., grading 7.28 mi. Austinville-Parkersburg Rd., 26 ft., 101,445 cu.yd. excav., 1,216 ft. 12- to 18-in. pipe, to L. O. Kimball, Clear Lake, $27,514.

Minnesota—State Hy. Dept., St. Paul (**SP means State Project, FAP means Federal Aid Project**), grading 12 mi. SP 2-32 Sect. 2, FAP 348, Sect. A, 156,000 cu.yd. excav., to Lunde, Hanley & Underhill, Nashwauk, $55,963; grading 4 mi. SP 2-33, Sect. 1, FAP 348, Sect. C, 63,000 cu. yd. excav., to Stanley Bros., St. Cloud, $22,167, Bridge 4230, to Twin City Bridge Co., Minneapolis, $10,894; 20 mi. SP 6-39, Sect. 2, FAP 333; Div. A and B to Carter, Halls, Adlinger Co., 706 1st Ave. N., Minneapolis, $60,670, Div. C to A. J. McKibbin, Lancaster, $38,446, 3 bridges to Babcock Bros., Winnebago, $38,634; 7 mi. SP 9-38, FAP 311, 75,000 cu.yd. excav., to D. Ryan, Marshall, $23,944, Bridge 3923, two 23 ft. spans, and culverts, to Williams Bros., Winnebago, $7,639; 15 mi. SP 9-39, Sect. A, FAP 352, 187,000 cu.yd. excav., to J. Sampson, Faribault, $63,300, Bridge 4253, 80 ft., and culverts to C. H. Vickerman, Caledonia, $8,127; 9.5 mi. SP 13-26, Sect. F, FAP 346, 141,000 cu.yd. excav., to J. J. Davy, Olivia, $39,630; 25 mi. SP 28-25, Sect. A, FAP 360; Divs. A and B to Nelson, Fulton & Nelson, 355 Temple Court, Minneapolis, $102,067, Div. C, to Stanley Bros., St. Cloud, $27,566; 20 mi. SP 29-23, Sect. A, FAP 358, 340,000 cu.yd. excav., to Thomas Bros. & Thursdale, Foley, $113,910, Bridge 4227, 50 ft., to A. H. Ellis, Alexandria, $1,200; 4.5 mi. SP 30-24, FAP 336, 122,000 cu.yd. excav., 29,000 sq.yd. asphalt paving, 6,600 ft. curb, to Welch Paving Corp., 703 1st Natl.-Soo Line Bldg., Minneapolis, $68,555, grading 2 mi. to Nelson, Fulton & Nelson, 355 Temple Court, Minneapolis, $38,507, Bridge 4159, 30 ft. long, to J. A. Jardine, Fargo, N. D., $5,978; 9.5 mi. SP 56-24, Sect. C, FAP 359, 74,000 cu.yd. excav., and culverts to R. F. Nichols, Waseca, $27,095; 12 mi. SP 56-22, Sect. A, FAP 357, 219,000 cu.yd. excav. and culverts, to J. Sampson, Faribault, $94,358, Bridge 4239 and widening Bridge 1571, to Williams Bros., Winnebago, $6,370; 23.5 mi. SP 64-24, Sect. D, FAP 353, 250,000 cu.yd. excav., to Stanley Bros., St. Cloud, $66,316, Bridge 4226, 30 ft. long, to J. H. Atkins, Barnesville, $5,616. Noted Apr. 10.

Minn., Grand Rapids—Comrs. Itasca Co., grading 22 mi. Grand Rapids-Marcell Highway, 28 ft., to Whitmas & Bluntach, Bovey, $100,925.

Minn., Virginia—Paving 9 blocks alleys, concrete, to Range Constr. Co., Virginia, $26,644.

Kan., Dodge City—Ford Co., grading and surfacing with sand clay 4.405 mi. Federal Aid Project 221, to Bennett & Underwood, Garden City, $26,610. Noted Mar. 27.

Kan., Topeka—Shawnee Co., grading and filling 3.933 mi. Federal Aid Project 141, Sect. D, to Dolman & Kanode, Topeka, $25,744; grading 6.497 mi. Federal Aid Project 141, Sect. C, to Ziegler & Dalton, Junction City, $43,941. Noted Mar. 27.

Neb., Omaha—Douglas Co., to J. Kerns Constr. Co., Omaha, paving 44,000 sq.yd. Rd. 52, asphaltic concrete, $2.77 per sq.yd.; to J. E. Turner, Omaha, grading 70,000 cu. yd. Rd. 29, $0.234 and 40,000 cu.yd. Rd. 48, $0.238.

Neb., Nebraska City—Otoe Co., grading and gravel surfacing 2.43 mi. Federal Aid Project 214, to Abel Constr. Co., Nebraska City, $35,552, bridge to Monarch Eng. Co., Falls City, $6,076. Noted Apr. 3.

S. D., Canton—Concrete paving 20,000 sq.yd. various streets to C. H. Atkinson Paving Co., Watertown, $46,859. Noted Mar. 13.

N. D., Carrington — Foster Co., gravel surfacing 11 mi. Federal Aid Project 45 and 3.5 mi. Federal Aid Project 102 and grading Federal Aid Project 252 to Stevens Bros., 15 Piedmont Bldg., St. Paul, Minn., $20,608, $7,750 and $4,967 respectively; gravel surfacing Federal Aid Project 252 to Howard & Webster, Turtle Lake, $5,678.

N. D., Hillsboro — C. D. Olson, aud. Traill Co., grading 7 mi. Federal Aid Project 61 A, 33,328 cu.yd. excav., culverts, etc., also 3 mi. Federal Aid Project 5 G, 19,491 cu.yd. excav., and gravel surface, to W. H. Noell, Jamestown, $12,440 and $26,100 respectively. Noted Apr. 3.

N. D., McClusky—Sheridan Co., grading 13 mi. Federal Aid Project 209, 90,195 cu. yd. excav., etc., and 6 mi. Federal Aid Project 218, 57,875 cu.yd. excav., etc., to F. O. Smith, Steele, $32,360 and $24,118 respectively.

N. D., Valley City—C. W. Nelson, aud. Barnes Co., grading 12 mi. Federal Aid Project 221, 90,437 cu.yd. excav., etc., to W. H. Noel, Jamestown; 11 mi. gravel surface on Federal Aid Project 36, and 10 mi. Federal Aid Project 124, to C. C. Jackson, Jamestown. Total est. $55,000. Noted Apr. 3.

Mont., Livingston — Park Co., Federal Aid Project 59, Sects. A and B, 2.77 mi. gravel surfacing, to J. S. Haley, Bozeman, $25,019. Noted Apr. 10.

Mo., Chaffee — Grading and rein.-con. surfacing several blocks Main and Yoakum Sts., to Regenhardt Constr. Co., Cape Girardeau, $55,850.

Mo., Kirksville—E. L. Barnes, city clk., grading, curbing and rein.-con. paving 14 blocks Normal and McPherson Sts., 30 ft., to Layton Constr. Co., Muscatine, Ia., $48,000. Noted Apr. 10.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Skrainka Constr. Co., Security Bldg., concrete paving alley in City Block 5331, $3,725, sidewalks on Arsenal St. in front of city building, $3,298; to Eyermann Constr. Co., 1216 South Grand Blvd., concrete paving alley in City Block 5332, $4,118; to Granite Bituminous Paving Co., Railway Exch., reconstructing Lee Ave., warrenite on concrete, $23,591, 39th St., bitulithic on concrete, $13,812, Penrose St., bitulithic on concrete, $24,486. Noted Mar. 6.

Mo., St. Louis — Bd. Pub. Serv., to Skrainka Constr. Co., Security Bldg., improving alley in City Block 5405, 1,340 sq.yd. concrete, etc., $3,536, reconstructing Finkman Ave., 2,025 sq.yd. Kentucky rock asphalt, $11,458, Magnolia Ave., 2,310 sq. yd. Kentucky rock asphalt, $12,170, San Francisco St., 1,005 sq.yd. Kentucky rock asphalt, $6,283; to Eyermann Constr. Co., 1216 South Grand Blvd., reconstructing Flora Pl., 25,915 sq.yd. Kentucky rock asphalt, $43,048, Klock St., 5,725 cu.yd. grading, 1,650 sq.yd. Kentucky rock asphalt, $14,073; to J. E. Perkinson, 3237 Carter Ave., constructing Dressel Ave., 2,950 sq. yd. Kentucky rock asphalt, $14,715. Noted Mar. 27.

Mo., Springfield—Grading and concrete surfacing 2 mi. Springfield-Ozark Trail, 18 ft., to Springfield Constr. Co., Springfield, $47,575.

Tex., Commerce — Rock asphalt paving 24,411 sq.yd., also curbing and guttering, various streets, to W. H. Nichols, Mercantile Bank Bldg., Dallas, $100,000. Noted Apr. 3.

Tex., Dallas — See "Railways" under Texas.

Tex., Ft. Worth—Paving, etc., Carlock Ave. and Warner Rd., to West Texas Constr. Co., Cotton Exch. Bldg., 8,700 sq. yd. rock asphalt $3.18, 6,000 ft. curb and gutter $1, 3,500 cu.yd. excav. $0.90. Engrs. est. $35,000.

Tex., Kerrville—Kerr Co. improving 5.83 mi. State Highway 41, 18 ft., bituminous Federal Aid Project 405, to Colglazier & Hoff, 922 Austin St., San Antonio, $55,699. Noted Apr. 24.

Tex., Rockwall—Will pave 7,760 sq.yd. of Square, concrete, by day labor. $25,000. V. R. Smitham, Rockwall, engr.

Okla., Oklahoma City — Grading and paving 6 blocks 18th St., 6,700 sq.yd. asphalt, 3,850 lin.ft. curbing and 2,400 cu.yd. excav., to Western Paving Co., Tradesmens Bldg., $34,194. Noted Mar. 20.

Okla., Oklahoma City—Grading and paving 6 blocks Western Ave., to Western Paving Co., Tradesmens Bldg., 6,300 sq.yd. asphalt, $3.88, 2,100 cu.yd. excav. $0.98, etc., total $38,550.

Okla., Oklahoma City—Grading and paving Bway. and B Sts., 5,750 sq.yd. paving, 1,900 cu.yd. excav., to Western Paving Co., Tradesmens Bldg., Oklahoma City, $34,124. Noted Feb. 7.

Okla., Pawhuska—Grading and paving 8 blocks 14th and 15th Sts., 7,900 sq.yd. concrete, 4,800 lin.ft. curbing, to Tibbets & Pleasant, 209 North Nogales St., Tulsa, $38,763.

Colo., Denver—Asphalt paving, to Allied Contractors, Inc., 803 Douglas St., Omaha, Neb., 12 blocks East Denver Paving Dist. 14, $47,208, 12 blocks East Denver Paving Dist. 12, $33,114, 12 blocks South Capitol Hill Paving Dist. 1, $39,335, 12 blocks Capitol Hill Paving Dist. 8, $42,709, 12 blocks Capitol Hill Paving Dist. 7, $36,832; to New Mexico Constr. Co., Albuquerque, N. M., 12 blocks West 33rd Ave. Paving Dist. 1, $36,853, 12 blocks East Denver Paving Dist. 13, $35,589; to Western Paving & Constr. Co., International Trust Bldg., 12 blocks Capitol Hill Paving Dist. 10, $42,043, 12 blocks Capitol Hill Paving Dist. 4, $38,886; curbing, grading and surfacing, to J. Collier, 63 South Logan St., West Denver Impvt. Dist. 3, $33,097. Noted Apr. 24.

New Mexico — State Highway Dept., Santa Fe, Federal Aid Project 18, Carlsbad-Pearl Rd. No. 15, Sect. 1, Eddy Co., to E. V. Graham, Odessa, Tex., 19,634 cu. yd. 6 in. one course caliche surfacing $1.90, total $37,305; Federal Aid Project 28, Fort Bayard to Bayard Sta. No. 48, Sect. 4, Grant Co., to Reynolds & Sutton, Albuquerque, 1,185 cu.yd. gravel shoulders $3.50, 15,242 cu.yd. cement concrete for shoulders $15.60, total $27,925; Federal Aid Project 136, Los Lunas-Gallup Rd. 6, Sect. 2, Valencia Co., to L. Moor Constr. Co., Two Republics Bldg., El Paso, Tex., 9,884 cu.yd. excav. $0.35, 4,932 cu.yd. borrow $0.25, 3,981 cu.yd. two course gravel surfacing $2.25, for bridges; 624 cu.yd. concrete $26, 108 cu.yd. concrete (spillways) $25, 87,350 lb. reinforcing $0.08, 1,080 lin. ft. concrete piling $4.10, 155 tons structural steel $170, 1,367 cu.yd. excav. $5.50, total $81,182; Federal Aid Project 60 A, Santa Fe-Las Vegas Rd. 1, Sect. 6, San Miguel Co., to A. O. Peabody, Albuquerque, 20,957 cu.yd. Class 1 excav. $0.32, 1,028 cu.yd. Class 3 excav. $2.60, 5,566 cu.yd. Class 1 borrow $0.32, 8,583 cu.yd. crushed stone

Streets and Roads (Continued)

surfacing $2.70, 748 cu.yd. concrete $25, 81,250 lb. reinforcing $0.08, 25,545 ft. wooden superstructure $0.90, total $66,690; Federal Aid Project 133, Silver City-Cliff Rd. 11, Sect. 2, Grant Co., to Anderson Constr. Co., El Paso, Tex., 3,757 cu.yd. two course crushed stone surface $3.65, 125 cu.yd. concrete $30, etc., total $38,625; Federal Aid Project 57, Roswell-Clovis Rd. 18, Sects. 2 and 3, Chaves Co., to L. R. Cullen, Roswell, 3,033 cu.yd. two course gravel surfacing $2.15, 753 cu.yd. two course gravel surfacing $4, 227 cu.yd. concrete $18, etc., total $21,180; Federal Aid Project 139, Deming-Columbus Rd. 29, Sect. 1, Luna Co., to J. Mulligan, El Paso, Tex., 8,690 cu.yd. gravel surfacing $2.39, 61 cu.yd. concrete $22, etc., total $28,918; Federal Aid Project 137, Portales-Clovis Rd. 18, Sect. 2, Roosevelt Co., to Irick & Fridell, Plainview, Tex., 8,996 cu.yd. excav. $0.30, 12,378 cu.yd. Class 1 borrow $0.30, 13,661 cu.yd. 12 in. caliche surfacing, 2 course 6 in. $2, 1,679 cu.yd. cement concrete $14.50, total $61,499. Noted Mar. 27.

Calif., Los Angeles — Improving Normandie Ave., grading, 207,752 ft. Warrenite, 11,489 ft. bituminous base, curbs, gutters, etc., to G. H. Oswald, 366 East 58th St., $77,378. Noted Apr. 24.

Calif., Los Angeles — Paving 2.8 mi. highway between Pasadena and Montebello Aves., cement concrete on asphaltic concrete, to G. H. Oswald, 366 East 58th St., $183,863. Noted Apr. 24.

Idaho—State Highway Dept., Boise, surfacing 10.06 mi. Old Oregon Trail, Montpelier to Georgetown, Bear Lake Co., Federal Aid Project 80, to G. K. March, 1126 2nd St., Spokane, Wash., $36,483; 14.83 mi. Hansen to Cassia Co. line, Twin Falls Co., Federal Aid Project 23-C, and 8.28 mi. between Burley and Twin Falls Co., Cassia Co., Federal Aid Project 70, to C. A. Robinson, Twin Falls, $113,790 and $51,392 respectively. Noted Mar. 20.

Utah—State Rd. Comn., Salt Lake City, 11.34 gravel and 1.11 concrete road also concrete bridge, Federal Aid Projects 56 and 57, to Reynolds-Ely, Springville, $149,478. Engrs. est. $159,319.

Washington—State Hy. Comn., Olympia, crushed rock surfacing 15 mi. State Rd. 12 from Walville to Meskill, Lewis Co., to F. G. Redmonn, Yakima, $33,348; concrete paving 4.85 mi. National Park Highway from Ethel to Mill Creek, Lewis Co., to Forbes & Wilder, Olympia, $168,039.

Wash., Aberdeen—City Council, paving Arnold St. et al., vitrolithic, to Greene Eng. Co., Aberdeen, $2.56 per sq.yd., total $28,052. Engrs. est. $25,000. Noted Apr. 24.

Wash., Chehalis—Lewis Co., paving Permanent Highway 12, Centralia-Bucoda Highway, 12,101 sq.yd. concrete, to J. H. Collins & Co., Thompson Bldg., Seattle, $32,070. Engrs. est. $35,000. Noted Apr. 17.

Wash., Kelso—City Council, paving, etc., West Kelso Dist., 26,700 sq.yd. 2 in. Warrenite on 3 in. bitumen, 12,300 lin.ft. curbing and 5,000 cu.yd. earth excav., to United Contg. Co., Northwest Bank Bldg., Portland, Ore., $86,531. Engrs. est. $100,000. Noted Apr. 24.

Wash., Longview—Long Bell Lumber Co., paving Oregon Way from St. Helens to Columbia River, 11,322 sq.yd. 6-in. concrete, etc., to Philbrick & Nicholson, Tacoma.

California—State Highway Comn., Sacramento, surfacing 9.7 mi. highway between Janesville and point 4 mi. west of Milford, crushed gravel or stone, to Warren Constr. Co., Bacon Bldg., Oakland, $47,921. Noted May 1.

Calif., San Bernardino—San Bernardino Co., Rd. Impvt. Dist. 26, improving 10,689 ft. Riverside Dr., 16 ft. grading, 6 in. crushed rock and asphaltic oil pavement, earth shoulders or embankments, 2 ft. wide on each side, to Pierson & Dickerson, Riverside, $25,300. Noted May 1.

Calif., San Francisco—Improving Marina Blvd. between Steiner and Lyon Sts., 87,907 sq.ft. asphalt with 6 in. foundation, 1½ in. binder course and 1 in. wearing surface, 20,808 sq.ft. artificial stone walks, 3,304 lin.ft. concrete curb, 6,608 sq.ft. vertical fibre brick gutter, etc., to Municipal Constr. Co., 306 12th St., Oakland, $34,895. Noted Apr. 10.

Calif., San Francisco—Southern Pacific R.R., 65 Market St., repaving 5th St. from Townsend to Harrison Sts., asphalt on concrete, etc., to Tibbitts-Pacific Co., 16 California St., $55,000.

Calif., Santa Ana—Improving West 17th St., to B. R. Ford, 407 West 17th St., 152,569 sq.ft. 7 in. concrete $0.2575. 2,380 ft. 4 in. sewers $0.50, [illegible] Noted May 1.

Industrial Works

PROPOSED WORK

Mass., Somerville—Service Station—International Harvester Co. of America, 43 Somerville Ave., having revised plans prepared 1 story, 75 x 100 ft. Private plans.

Mass., Springfield—Garage, etc.—Three Level Garage Co., 39 Lincoln St., Boston, plans 3 story, here. $160,000. Private plans.

N. Y., Albany — Pasteurization and Bottling Plant—Uncle Sams Dairy Co. plans plant, 3rd Ave. $70,000-$75,000. Address H. C. Williams, c/o owner.

N. Y., North Tonawonda—Plant—Macbeth Body Co., Inc., plans manufacturing plant, Erie Ave. To exceed $100,000. Address A. S. Loepere, 2157 Seneca St., Buffalo.

N. Y., Rome—Station—Northern New York Utilities, Inc., Light & Power Bldg., Watertown, plans 10,000 hp. steam generating station, here. To exceed $250,000.

N. Y., Utica—Plant—W. J. Schoonover Glass Co., New and Wyoming Aves., Scranton, Pa., plans manufacturing plant, Eagle St., here. $50,000.

Pa., Pittsburgh—Warehouse—Standard Sanitary Mfg. Co., Bessemer Bldg., having plans prepared by Hunting Davis Co., Century Bldg., 5 story and basement, 50 x 250 ft. concrete, brick and steel warehouse, Galveston Ave. $350,000.

Va., Norfolk—Plant—International Cement Corp., 342 Madison Ave., New York, plans plant, here. $2,000,000. Engineer and architect not selected.

La., Berwick—See "Waterworks."

O., Cleveland — Bakery — R. B. Biscuit Co., 2515 Bridge Ave., had plans prepared by Bohnard & Parsson, 1900 Euclid Ave., 3 story, 32 x 107 ft., brick and steel addition, Carroll Ave. $60,000.

O., Springfield — Factory — Crowell Publishing Co., 202 West High St., plans 7 story, fireproof. $1,000,000. J. E. Miller, rec. vice pres.

Mich., Caro — Power Station — Great Lakes Power Co., Bad Axe, having plans prepared by Ayers, Lewis, Norris & May, Cornwall Bldg., Ann Arbor, hydro electric power station here.

Ill., Abingdon—Plant—Amer. Sanitary Mfg. Co. having plans prepared by Lockwood, Greene & Co., 38 South Dearborn St., Chicago, addition to plant. Noted Apr. 10.

Wis., Milwaukee—Factory—A. H. Petersen Mfg. Co., 1614 Fratney St., plans to rebuild 1 story, 62 x 300 ft., brick and timber, plain foundation, recently destroyed by fire. Engineer and architect not selected.

Tex., Call—Saw Mill—Kirby Lumber Co., Commercial Natl. Bank Bldg., Houston, plans saw mill, here. $75,000.

Tex., Corpus Christi—Pressed Metal Mfg. Co. plans 110 x 180 ft. brick and rein.-con. plant. $150,000. W. Shelby, pres.

Tex., Dallas—Mill—Texas Textile Mills, c/o N. Adams, pres., Amer. Exch. Natl. Bank, having plans prepared by L. W. Robert, Jr., Interurban Bldg., 25,000 spindle mill. $5,000,000.

Tex., Dallas — Power Plant — Dallas Power & Light Co., Interurban Bldg., had plans prepared power plant substation, Jefferson and 5th Sts. $174,891. J. Oram, ch. engr.

Tex., Dallas—Terminal—Trinity & Brazos Valley R.R., Cleburne, and Ft. Worth & Denver City R.R., Record Bldg., Ft. Worth, plan freight terminal on Jackson St., here. $500,000. H. A. Stainer, c/o Ft. Worth & Denver City R.R., ch. engr.

Tex., Donna — Plant — H. Hansen plans citrus fruit packing plant, brick and concrete. $40,000.

Tex., Ft. Worth—Cotton Mill—L. H. McKee, 1501 Cooper St., and associates, making plans 3 story, 175 x 300 ft., brick and steel. $500,000. Private plans.

Tex., Ft. Worth—Factory—Burton Concrete Mfg. Co., having plans prepared by E. T. Glasgow, First Natl. Bank Bldg., fireproof factory.

Tex., Ft. Worth—Oil Refinery—Star Refining & Producing Co., Evans St., plans addition. $50,000.

Tex., San Antonio — Factory — G. H. Barnes and J. H. Reagan, City Natl. Bank Bldg., owners Lion Brand Products Co., making plans 2 story, 80 x 160 ft., brick and concrete. $60,000. Private plans.

Okla., Grove—Power Plant—Pub. Serv. Co., 107 East 4th St., Tulsa, purchased site and having surveys made hydro electric power plant on Grand River, near here. $1,000,000. Byllesby Eng. Co., 208 South La Salle St., Chicago, engrs.

Okla., Tulsa—Factory—Cement Securities Co., Denver, Colo., made plans group of buildings, west of here. $2,000,000.

Ariz., Mesa—Plant—Independent Cotton & Oil Co., W. T. Owens, pres., El Paso, Tex., plans cotton seed oil plant, here Will exceed $75,000.

California—Milk Plant—Meyenberg Evaporated Milk Co., 1 Drumm St., San Francisco, plans plant, name of location withheld. $50,000 or more. Engineer and architect not selected.

Calif., College Park (San Jose, P. O.)—Packing Plant—California Packing Corp., 101 California St., San Francisco, having plans prepared by P. Bush, 101 California St., San Francisco, packing plant, here. $100,000.

Calif., Los Angeles — Factory — Pacific Readi-Cut Homes Co., 1330 South Hill St., having plans prepared 2 story, 110 x 250 ft., frame. Private plans.

Calif., Los Angeles—Factory—Art Furniture Co., 649 West Washington St., having plans prepared 2 story, 55 x 150 ft. brick, 16th St. Private plans.

Calif., Los Angeles—Substation—Pacific Electric Ry. Co., Pacific Electric Bldg., plans concrete, near 25th St. and Long Beach Ave. To exceed $60,000.

Calif., Ripon—Milk Plant, etc.—Meyenberg Evaporated Milk Co., 1 Drumm St., San Francisco, plans 1 story frame plant, also brick boiler plant, here. $55,000. Engineer and architect not selected.

Calif., Sacramento — Creamery — Glenn Dairy Co., 3673 Folsom Blvd., had plans prepared 2 story, concrete, A St. $60,000. Private plans.

Ont., Oshawa — Factory — Natl. Pulp Assn. having plans prepared addition to factory. $75,000.

BIDS DESIRED

N. Y., New York—Housing Station—May 13, by Dept. Plant & Structures, Municipal Bldg., rein.-con., brick and steel, plain foundation, 139th St. and Harlem River. Former bids rejected. Noted Apr. 24.

Pa., Phila. — Station — May 9, by C. Wunder, archt., 1520 Locust St., 1 story and basement, 145 x 160 ft. milk distributing station, brick and steel, plain foundation, northwest of Orthodox Ave., for Supplee-Mills-Jones Co., 1523 North 26th St. $200,000.

Md., Baltimore — Garage and Stable — May 17, by McCormick Co., engrs., 121 South Negley Ave., Pittsburgh, Pa., 3 story, 136 x 159 ft., rein.-con. and brick, Exeter and Front Sts., here, for Fairfield Farms Dairy, Inc., 539 North Exeter St.

Wis., Wausau—Factory—Marathon Electric Mfg. Co., A. Kimble, mgr. Plumer Island, taking bids 1 story, 52 x 120 ft., brick and timber addition, plain foundation. $40,000. Private plans.

Neb., Beatrice — Plant — C. H. Cane, archt., c/o Swift & Co., Beatrice, owner, taking bids 3 story and basement, 90 x 144 ft. rein.-con. and brick packing plant. $100,000.

Tex., Dallas—Factory—See "Buildings" under Office, etc.

Calif., San Francisco—Factory—H. H. Meyers, archt., Kohl Bldg., taking bids 3 story, rein.-con., 7th and Howard Sts., for San Francisco Assn. for the Blind, 432 Sutter St. $100,000. Noted Sept. 6.

BIDS RECEIVED

Ia., Cedar Rapids—Plant—Gazette Co., 2 story and basement, 60 x 140 ft., rein.-con. brick, tile and stone, 3rd Ave. and 5th St., general contract from A. J. Smith, 234 Granby Bldg., $74,970. Noted May 1.

CONTRACTS AWARDED

Vt., Morrisville—See "Unclassified."

Mass., Boston — Sub-Station — Edison Electric Illuminating Co., 70 State St., 5 story, 66 x 80 ft., rein.-con., Cambridge St., to Whidden-Beekman Co., 100 Boylston St. Noted Apr. 17.

Mass., Canton—Factory—Norfolk Japanneries, Inc., four 1 story, 60 x 150 ft. timber manufacturing units, and 1 story, 30 x 40 ft. brick boiler house, to Reynolds Bros., Summer St., Boston. Archts. est. $60,000. Noted May 1.

Mass., Peabody—Machine Shop—Danvers Bleachery, 2 story, 52 x 153 ft., brick and concrete, to E. H. Porter, Wallis St. Noted Apr. 17.

N. Y., Penn Yan — Factory — Whitfield Carriage Co., 50 x 200 ft., fireproof, to B. H. Rogers, Penn Yan, $40,000.

N. Y., Potsdam—See "Unclassified."

Pa., Harrisburg—Plant—Air Reduction Co. of America, 342 Madison Ave., New York City, plant to Central Constr. Co.,

Industrial Works (Continued)
Pine and Court Sts., $300,000. Noted Mar. 13.

Pa., Pittsburgh—Laundry—Pearl Laundry Co., 2015 Wayandotte St., 3 story and basement, to Toupet Building Co., 5814 Ellsworth Ave. Archts. est. $150,000. Noted Apr. 10.

Md., Baltimore — Plant—Schluderberg-Kurdle Co., Baltimore and 5th Sts., 7 story, 60 x 225 ft., rein.-con. and brick, plain foundation, Baltimore and 5th Sts., to Whiting-Turner Constr. Co., Stewart Bldg., $300,000. Noted Apr. 10.

La., New Orleans—Roundhouse, etc.—Pub. Belt R.R. Comn., City Hall Annex, 20 x 75 ft. service building, 193 x 268 ft. roundhouse and machine shop, 17 x 27 ft. oilhouse, all rein.-con., brick and steel, Valence, Tchoupitoulas and Lyons Sts., to R. P. Farnsworth & Co., Canal Commercial Bldg., $150,316.

O., Cleveland—Factories—Bowler Fdry. Co., 1688 Columbus Rd., 1 story, 90 x 203 ft. foundry, 40 x 100 ft. cleaning and shipping building, 25 x 42 ft. garage, and 100 x 146 ft. pattern and office building, brick and steel, East 49th St., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $250,000. Noted Apr. 17.

Ind., Indianapolis — Printing — C. E. Pauley, 225 North New Jersey St., 6 story, 55 x 70 ft., rein.-con., North New Jersey St., to Foster Eng. Co., Pythian Bldg.

Wis., Menomonee—Creamery—New Hudson Road Creamery Co., C. Oberle, secy., 1 and 2 story, 50 x 70 ft., brick, tile and concrete addition, plain foundation, to Tilseth & Walden, Menomonie. $40,000. Noted May 1.

Wis., West Bend — Factory — Amity Leather Products Co. 2 story, 80 x 130 ft., brick and timber, plain foundation, to Hutter Constr. Co., 128 Western Ave., Fond du Lac. $50,000.

Tex., Ft. Worth—Car Repair Shop—Lone Star Tank Co., c/o W. A. Stukey, pres., Wichita Falls, will build car shops, Saginaw Rd., here, by day labor. $75,000.

Tex., Houston — Packing House — Texas Packing Co., 110 Milam St., 3 story, basement and sub basement, concrete and brick, San Jacinto St., to Russell Brown Co., 2104 Main St., $80,000. Noted Mar. 6.

Tex., San Antonio — Plant — Pioneer Flour Mills, 129 East Guenther St., 7 story, 56 x 160 ft. and 36 x 106 ft., concrete and steel, plain foundation, to C. M. Schoenfeld, 324 Humstock Ave. $92,500.

Calif., Los Angeles—Newspaper Plant—Evening Herald, 136 South Bway., 3 story and basement, 150 x 200 ft., brick and rein.-con., Georgia St., to R. E. Millsap, Marsh-Strong Bldg., $225,000. Noted Feb. 21.

Calif., San Francisco—Laundry—Independent Laundry, 2798 19th St., 2 story and basement, 200 x 200 ft., rein.-con., and 1 and 2 story, 40 x 100 ft. addition, Alabama and 18th Sts., to Peterson & Pearson, 180 Jessie St., $98,750. Noted Apr. 3.

Ont., Cornwall—Factory—Courtland Ltd., Cornwall, silk factory here, general contract to Foundations Co. of Canada, 224 St. James St., Montreal, Que., steel to Canadian Vickers Co., 3072 Notre Dame St. E., Montreal, Que.

B. C., Vancouver—Plant—British Columbia Electric Ry. Co., 425 Carrol St., 24 vertical retort gas plant, to West Gas Improvement Co., Manchester, England, $400,000, 250,000 cu.ft. gas holder for Victoria Gas Co., Pembroke St., Victoria, to R. Dempster & Sons, Yorkshire, England, $175,000.

Buildings

PROPOSED WORK

Mass., Boston — Police — City having plans prepared by Ritchie Parsons & Taylor, 15 Ashburton Pl., 7 story, basement and sub-basement, 100 x 140 ft., rein.-con., brick and steel, Berkley, Stuart and Stanhope Sts. $700,000.

N. Y., Binghamton—Store and Office—F. Stento, 127 Susquehanna St., plans store and office, Exchange St. $150,000-$175,000.

N. Y., Brooklyn — Church — German Evangelical Aid Society, c/o Bannister & Schell, archts. and engrs., 339 Lexington Ave., New York, having plans prepared brick, steel and stone, plain foundation, Bushwick Ave. and Chauncey St., here. $300,000.

N. Y., Buffalo — Administration and Study Hall — Nichols School (private), plans administration and study hall, Colvin and Amherst Sts. $175,000. E. H. Letchworth, chn. building com.

N. Y., Dolgeville — Church — Building Com. of Presbyterian Church having plans prepared by Linn Kinne, Mayro Bldg., Utica, new church, South Main St. $150,000-$160,000.

N. Y., Geneva — High School — T. F. Hickey, bishop, 947 East Ave., plans new catholic high school. $250,000.

N. Y., Herkimer—County—Herkimer Co. plans new county building. To exceed $150,000. Address C. Stoddard, member building com. Engineer and architect not selected.

N. Y., Lackawanna — Hotel — F. Hoepfinger plans 5 story and basement, brick, concrete and steel, Ridge Rd. $175,000-$200,000.

N. Y., New York — Apartment — Harco Realty Co., c/o Cross & Cross, archt., 385 Madison Ave., having plans prepared 9 story, brick, steel and stone, plain foundation, 145 East 54th St. Clark, McMullen & Reilly, 101 Park Ave., engrs.

N. Y., New York—Apartment—Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans 5 story, 100 x 110 ft., brick, steel and stone, plain foundation, Isham St. Owners name withheld.

N. Y., New York — Garage — W. A. Cameron, c/o S. J. Kessler, archt. and engr., 529 Courtlandt Ave., soon takes bids 5 story, rein.-con., brick and steel, plain foundation, East 182nd St. $350,000.

N. Y., Pelham—School—Bd. Educ. having plans prepared by Starrett & Van Vleck, archts. and engrs., 8 West 40th St., New York, brick, steel and stone, plain foundation. $750,000.

N. Y., Penn Yan—High School—Defeated $162,000 bonds Junior High School. Noted Apr. 10.

N. Y., Rochester—Exchange—Rochester Telephone Corp. plans 2 story, 45 x 135 ft., brick, concrete and steel, Merchants Rd. To exceed $150,000. J. P. Boylan, genl. mgr.

N. Y., Seneca Falls—School—St. Patricks Parish plans new parochial school. $175,000-$200,000. B. L. Quirk, pastor.

N. Y., Watertown — Hospital — Building Com. Mercy Hospital had plans prepared by D. D. Kieff, Flower Bldg., new hospital. $500,000.

N. Y., Watertown—School—Bd. Educ. plans school on Meade St. $400,000. F. Tisdale, supt.

N. Y., Waverly — School — Bd. Educ. plans grade school. $210,000-$250,000. F. L. Van Norstran, village pres.

N. J., Trenton—High School—Bd. Educ. having plans prepared by W. A. Klemann, 1st Natl. Bank Bldg., 2 story and basement, 350 and 380 ft., fireproof. $1,500,000.

Pa., Phila.—Apartment—McLanahan & Bencker, archts., Bellevue Court Bldg., preparing plans 20 story and basement, 127 x 135 ft. brick and steel, plain foundation, Walnut and 19th Sts. Owners name withheld.

Pa., Phila.—High School—Bd. Educ., 19th and Chestnut Sts., having plans prepared 4 and 5 story and basement, 244 x 320 ft. rein.-con. and limestone, plain foundation, 59th and Columbia Sts. $1,750,000. Private plans.

Pa., Phila.—Lodge and Store—Central Hall Assn. of I. O. O. F., H. W. Rommell, chn., 555 North 17th St., having plans prepared by E. A. Wightman, Bankers Trust Bldg., 4 story and basement, 40 x 158 ft. brick, steel and limestone, plain foundation, 16th and Oxford Sts. $150,000.

Pa., Tarr—High School—Bd. Educ. East Huntington Twp. having plans prepared by H. C. Frank, 2nd Natl. Bank Bldg., Connellsville, 2 story and basement, 105 x 160 ft. brick and steel. $150,000.

Md., Baltimore — High School — H. G. Perring, superv. engr. Pub. Impvt. Comn., Hearst Tower, had revised plans prepared by Smith & May, Calvert Bldg., and soon takes bids 3 story and basement, rein.-con. and brick, (excluding swimming pool), Hilton St. $1,100,000. Noted Apr. 24.

Va., Richmond—Hotel—Murphys Hotel, J. T. Disney, pres. and genl. mgr., plans addition to main part of structure. $1,000,000.

W. Va., Huntington—Office—Meanor & Handloser, archts., Professional Bldg., soon take bids 10 story, 50 x 185 ft., rein.-con., steel, brick and marble, 5th Ave., for W. H. Lewis, 817 4th Ave. $150,000.

Fla., Bellair—Hotel—F. Jonesburg, St. Petersburg, having plans prepared by Ritchie, Parsons & Taylor, 15 Ashburton Pl., Boston, Mass., 300 room addition to Belleview Hotel, here. $500,000.

Ala., Birmingham—Hotel—P. Coleman, et al., 1st Natl Bank Bldg., having plans prepared by G. L. Preacher & Co., Healey Bldg., Atlanta, Ga., 14 story, 250 rooms, 5th Ave. and 21st St. $1,250,000. Noted Nov. 29.

Ala., Birmingham — Office — Alabama Power Co., B. M. Bldg., plans 16 to 20 story, 140 x 190 ft., steel and concrete, 6th Ave. and 18th St. $1,000,000 to $1,250,000. Private plans.

Ala., Birmingham—Store—J. G. Whitfield, Springfield, Tenn., plans 6 story, 149 x 150 ft., 18th St. and 4th Ave., here. $400,000. Architect not selected.

La., New Orleans—Amusement—Garden Plunge Co., A. M. Pratt, pres., Carondelet Bldg., having plans prepared by N. Gardner, Knoxville, Tenn., 2 story steel dance pavilion, restaurant, dressing rooms, etc., and rein.-con. open air swimming pool, Canal Blvd. and City Park. $200,000.

Tenn., Memphis—Fraternal—Knights of Pythias, 138 North 3rd St., having plans prepared by Hanker & Cairns, Madison Ave., 5 story, 138 x 140 ft., brick and terra cotta. $230,000. G. H. Gutherie, ch. building committee.

Tenn., Memphis—Hall—G. Turner, ch. building com., Shrine Bldg., having plans prepared by E. L. Harrison, U and P Bldg., for Mazda Grotto Masonic Hall, 120 x 240 ft., Washington and Dunlap Sts. $150,000.

O., Canton—Exchange—Ohio Bell Telephone Co., 317 Tuscarawas St. W., plans 3 story (ultimately 8 story), 66½ x 200 ft. brick, 4th St. and Cleveland Ave. N. W. Ultimate cost $1,025,000. Engineer and architect not announced.

O., Cleveland — Apartment — S. Passov, 1054 Linn Dr. had plans prepared by A. W. Harris, Discount Bldg., 3 story and basement, brick, North Moreland Blvd. $200,000. Noted Mar. 6.

O., Cleveland—Commercial—A. Koblitz, 422 Leader-News Bldg., plans 6 story, brick, steel and concrete on 100 x 120 ft. site, 719 St. Clair Ave. $200,000. Engineer and architect not selected.

O., Cleveland — Commercial — Motors Realty Co., c/o G. G. Peckham, pres., 1903 East 19th St., having plans prepared by W. S. Ferguson Co., 1900 Euclid Ave., 10 story and basement, 136 x 320 ft., brick, steel and concrete, Euclid Ave. $1,000,000.

O., Cleveland—Store—F. W. Woolworth Co., c/o T. B. Owens, constr. mgr., Penton Bldg., having plans prepared 2 story and basement (ultimately 8 story) 80 x 200 ft., brick, steel and concrete, 1327 Euclid Ave. $200,000. Private plans.

Ind., Corydon—Court House—Harrison Co. having plans prepared by Shopbell, Fowler & Thole, Evansville, 2 story and basement, 150 x 180 ft., stone. $150,000.

Ind., Indianapolis — Furniture — Bauner Furniture Co. having plans prepared by D. A. Bohlen, Majestic Bldg., 7 story and basement, 46 x 156 ft., rein.-con., brick and steel, South Meridian St. $400,000.

Ind., Kokomo — Business — Armstrong-Landon Co. having plans prepared by O. Cook, Kokomo, 6 story and basement, 66 x 132 ft., rein.-con., brick and steel, Main St. $200,000.

Mich., Ann Arbor—Clubhouse—University of Michigan Womens League, 1005 Real Estate Exch., Detroit, having plans prepared by Pond & Pond, 64 East Van Buren Ave., Chicago, 4 story, rein.-con., brick and steel, plain foundation, South University and South 12th Aves., $1,000,000.

Wis., Kenosha—Church—First Methodist Episcopal Church, c/o E. Martin, pastor, 454 West St., making plans 2 story, brick and stone, plain foundation. $500,000. Childs & Smith, 720 North Michigan Blvd., Chicago, archts.

Wis., Madison—School—Bd. Educ., H. W. Pickford, clk., 22 West Dayton St., plans 4 story, rein.-con., brick and steel, plain foundation, Highland St. $250,000. Engineer and architect not selected.

Wis., Milwaukee—Apartment—Leiser & Holst, archts., 105 Wells St., prepared plans 3 story and basement, brick and tile, plain foundation, West Side. Owner's name withheld. $150,000.

Wis., Racine—Auditorium—J. W. Hammes, 622 Chicago St., plans 1 and 2 story, 112 x 160 ft., brick and steel, plain foundation, Douglass Ave. $160,000. Engineer and architect not selected.

Minn., Minneapolis—Dance Hall—Madrid Amusement Co., c/o Larson & McLaren, archts., 816 2nd Ave. S., rejected bids 1 story, 170 x 200 ft., brick and terra cotta, $150,000. Project deferred pending selection of new site. Noted Mar. 13.

Neb., Kimball—Courthouse—Kimball Co. defeated $150,000 bonds for court house. Noted Mar. 27.

Buildings (Continued)

Mo., Clarksburg — High School — Voted $235,000 bonds, 2 story and basement, brick, concrete and stone.

Mo., Hannibal—High School—Secretary Bd. Educ., takes bids about June 1, 2 story and basement, 110 x 195 ft., rein.-con., brick and stone. W. B. Ittner, 905 Locust St., St. Louis, archt.

Mo., St. Louis—Apartment—E. M. Worthington, 329 Belt Ave., will build 3 story and basement, with two 40 x 150 ft. wings, rein.-con., brick and stone, Lindell Blvd. Work will be done by separate contracts. J. T. Craven Eng. Co., Century Bldg., archts. and engrs. Noted Mar. 6.

Ark., Little Rock—Church and Sunday School—First Methodist Episcopal Church, 8th and Center Sts., soon takes bids 2 story and basement, concrete, brick and stone. $200,000. J. P. Almand, Boyle Bldg., archt.

Tex., Dallas — Hotel — C. N. Hilton, Waldorf Hotel, and associates, having plans prepared by Lang & Witchell, Amer. Exch. Natl. Bank, 14 story and basement, 75 x 100 ft., brick, concrete and steel, Main St. $1,000,000.

Tex., Dallas — Hotel — J. R. Munns, Slaughter Bldg., soon takes bids 16 story and basement, 50 x 100 ft., steel, concrete and brick, Main St. $800,000. T. J. Litzel, Deere Bldg., archt.

Tex., Dallas—Warehouse—Southwestern Bell Telephone Co., West Ind. Bldg., having revised plans prepared and will readvertise immediately 2 story, 100 x 150 warehouse, and 1 story, 105 x 110 ft. garage, brick and concrete, Horton St. $150,000. I. R. Timlin, c/o owner, engr.

Tex., El Paso—Church—Baptist Church having plans prepared by Lehmann & Wuehrmann, El Paso, 80 x 140 ft. church incl. large auditorium and Sunday school rooms, rein.-con., brick and stone, plain foundation, Montana and Virginia Sts. $250,000. E. B. McClintock, chn. building com.

Tex., Ft. Worth—Store—C. A. Hickman, 513 West 5th St., having plans prepared by W. G. Clarkson & Co., First Natl. Bank Bldg., 6 story and basement, 50 x 100, brick and concrete. $300,000.

Tex., Ft. Worth—Warehouse—Monnig Dry Goods Co., 1302 Main St., having plans prepared by L. B. Weinman, Texas State Bank Bldg., 6 story and basement, 100 x 200 ft., concrete and brick, Main and Commerce Sts.

Tex., McAllen — Hotel — C. De Palmas having plans prepared 4 story, brick and concrete. $150,000. Private plans.

Tex., San Antonio—Orphanage—Protestants Orphans Home having plans prepared by Adams & Adams, Gibbs Bldg., 2 story, St. Clous Farm on Boundary Rd., near here. $150,000.

Okla., Stillwater—Dormitory—State Bd. Control, Oklahoma City, plans 3 story and basement, 180 x 275 ft., rein.-con., plain foundation, on campus, here, for A and M College. $300,000. Noted May 1.

Wash., Seattle — Church — Dominican Fathers of Parish of Blessed Sacrament, 2390 Bush St., San Francisco, Calif., having plans prepared by Beezer Bros., 1915 Steiner St., San Francisco, Calif., structural steel, brick and stone, here. $300,000.

Wash., Seattle — Club — F. J. Peters, archt., Seaboard Bldg., takes bids about May 25, 2 story, 100 x 200 ft., fireproof, 22nd and Market St. N. W., for Ballard Order of Eagles. $400,000.

Ore., Portland—Warehouse and Office—Sutton & Lewis, archts., Lewis Bldg., takes bids in about 40 days, 7 story, 100 x 200 ft., rein.-con., plain foundation, 13th, 14th and Irving Sts., for F. Frank, 8th and Everett Sts. $300,000. Blaumier, Frank Drug Co., lessee.

Calif., Alhambra—Theatre—C. Rickman, c/o L. L. Smith, archt., Byrne Bldg., Los Angeles, had plans prepared 1 story and basement, 90 x 200 ft., brick, West Main St., here.

Calif., Berkeley — Church, etc. — First Congregational Church, c/o H. G. Simpson, archt., Call Bldg., having plans prepared brick and concrete church buildings, auditorium, chapel, etc., here. $250,000.

Calif., Compton—School—Compton Grammar School Dist. having plans prepared by R. D. King, Van Nuys Bldg., Los Angeles, and F. Goodwin, Compton, 2 brick schools, 6 and 12 rooms. $150,000.

Calif., Los Angeles—Apartment—C. Cole, c/o Stanton, Reed & Hibbard, archts., Metropolitan Bldg., having plans prepared 6 or 8 story and basement, 75 x 125 ft., rein.-con., Vine St.

Calif., Los Angeles—Bank—Central Commercial & Savings Bank, 6301 Santa Monica Blvd., plans 90 x 140 ft., fireproof, Hollywood Blvd. and Vine St. $150,000 or more.

Calif., Los Angeles—Exchange—Southern California Telephone Co., 740 South Olive St., having plans prepared by Bliss & Faville, Balboa Bldg., San Francisco, 9 story and basement, 120 x 171 ft., brick and steel, Olive St. $800,000. Noted Dec. 6.

Calif., Los Angeles—Library—City having plans prepared by C. M. Winslow, Van Nuys Bldg., Los Angeles, and B. G. Goodhue, 2 West 47th St., New York, 4 story, mezzanine and basement, rein.-con., 5th and Flower Sts. $1,500,000. Noted June 14.

Calif., Los Angeles—Store and Office—Peoples Mortgage Co., c/o W. D. Lee, archt., Junior Orpheum Bldg., having sketches made 6 story and basement, rein.-con., 5th and San Pedro Sts. $150,000 or more.

Calif., Orange—Theatre and Store—H. Z. Adams plans brick. $150,000. West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, lessee.

Calif., Sacramento—Bank—United Bank & Trust Co., New Montgomery and Market Sts., San Francisco, having plans prepared by G. E. Gottschalk, Phelan Bldg., San Francisco, 1 or 2 story and basement, Class A, rein.-con., here. $200,000.

Calif., San Francisco—Club and Office—California State Automobile Assn., 1628 Van Ness Ave., plans 3 story, rein.-con., Van Ness Ave. and Hayes St. $150,000 or more. H. J. Brunnier, Sharon Bldg., engr. Architect not selected.

Calif., Santa Barbara—Exhibition—Santa Barbara Horse Show Assn., plans 1 story, 32 ft. high, 200 x 300 ft., concrete, hollow tile and steel.

Calif., Santa Monica—Store and Office—R. P. Davie, et al., Dudley Bldg., plan 3 story, 150 x 150 ft., probably brick, 3rd and Utah Sts. $175,000.

Calif., Woodland—High School—Woodland Union High School Dist. having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, fireproof, probably rein.-con. $225,000. Noted Mar. 27.

Que., Outremont — Convent — Bellingham Convent having plans prepared by Viau & Venne, 99 St. James St., Montreal 6 story, 55 x 1,500 ft. rein.-con., Courcellette and Maplewood Sts. $1,500,000.

B. C., Vancouver—Schools—Election May 31, to vote on $550,000 bonds, two 8 room and one 30 room schools. A. A. Barrs, c/o Bd. School Trustees, Hamilton St., archt.

BIDS DESIRED

N. Y., Fort Edward—School—May 15, by Bd. Educ., 3 story, 80 x 120 ft., brick and steel, plain foundation, Bway. $240,000. Roth & White, 109 State St., Albany, archts. Noted Jan. 17.

Pa., Phila.—Apartment—May 10, by C. Oelschlager, archt., 1615 Walnut St., 9 story and basement, 20 x 130 ft., brick and limestone, plain foundation, 16th and Pine Sts. $200,000. Owner's name withheld.

Pa., Williamsport—Theatre, Store and Office—Majestic Theatre, G. H. Bubb, mgr., will build 2 story and basement, 70 x 122 ft. brick and steel, plain foundation. Work will be done by separate contract under supervision of W. H. Lee, archt., 1505 Race St., Phila. $150,000.

Ky., Owensboro—Church—St. Stephens Catholic Church taking bids and opens same about May 19, brick and steel, Locust St. $150,000. F. Erhart, Norton Bldg., Louisville, archt. Noted May 1.

O., Columbus—Laboratory—June 2, by C. E. Steele, secy. Bd. Trustees Ohio State University, 2 story and basement, 80 x 140 ft., brick, tile and concrete, on campus. J. N. Bradford, Ohio State University, archt.

O., Piqua—Wool and Storage—Orr Felt & Storage Blanket Co., taking bids 5 story and basement, 80 x 337 ft., brick and steel. Pretzinger & Musselman, 1155 Reibold Bldg., Dayton, archts.

O., Zanesville—Warehouse—Mosaic Tile Co. taking bids 4 story and basement, 80 x 142 ft., rein.-con. and brick addition. Lockwood, Greene & Co., Hanna Bldg., Cleveland, archts. Noted Mar. 6.

Mich., Highland Park (Detroit P. O.)—Nurses Home—May 12, by D. C. Gowing, city clk., 3 and 4 story, rein.-con., brick and steel, plain foundation, for Highland Park General Hospital. $200,000. G. W. Graves, 233 John R St., Detroit, archt.

Ill., Aurora—Bank and Office—May 10, by G. G. Elmslie, archt., 122 South Michigan St., Chicago, 3 story and basement, 50 x 200 ft., brick, concrete, stone and steel, here, for Old Second National Bank. $150,000. Noted Apr. 3.

Ill., Chicago—Apartment—H. K. Holsman, archt., 37 South Wabash St., taking bids 3 story and basement, 59 x 170 ft., fireproof, 56th and University Sts. $200,000. Owner's name withheld.

Ill., Chicago—Office and Warehouse—P. Gerhardt, archt., 64 West Randolph St., taking bids 6 story and basement, 100 x 192 ft., brick and concrete, plain foundation, Washington Blvd., for A. J. Lindermann & Hoverson Co., 1st and Cleveland Aves., Milwaukee, Wis. Noted Mar. 27.

Ill., Chicago — Synagogue — A. Epstein, archt., 2001 West Pershing Rd., taking bids 3 story, 156 x 162 ft., fireproof, 54th and Greenwood Sts., for Congregation Rodfe Zedeck, Michigan and 48th Pl. $400,000.

Ill., Chicago — Warehouse — A. Epstein, archt., 2001 West Pershing Rd., taking bids 2 story, 100 x 400 ft., fireproof, 1141 West 73rd St., for Tide Water Sales Corp., 3433 South Racine St. $150,000.

Wis., Milwaukee—Church—May 15, by H. C. Haeuser, archt., 445 Milwaukee St., 2 story, 54 x 132 ft., brick and stone, plain foundation, Teutonia Ave., for Immanuel Evangelical Lutheran Congregation, C. F. Dietz, 1122 Garfield Ave., pastor. $150,000. Noted Nov. 29.

Minn., Duluth—Hotel—May 15 (extended date), by M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, Wis., 13 story and basement, brick and concrete, plain foundation, here, for Hotel Duluth Co., c/o W. Schroeder, 86 Michigan St., Milwaukee, Wis. $1,250,000. Noted May 1.

Minn., Plainview—School—May 19, by Bd. Educ., 2 story and basement, rein.-con., brick and tile. E. A. French, clk. G. A. Pass & Son, Mankato, archts. Noted Mar. 13.

Kan., Wichita — Apartment — W. H. Gains, Eaton Hotel, taking bids 5 story, 130 x 173 ft., rein.-con. and brick, plain foundation, Poplar and Douglas Sts. $300,000. Architect's name withheld. Noted Apr. 24.

S. D., Huron — Auditorium and Gymnasium—May 15, by Huron College, 2 story and basement, 85 x 150 ft., rein.-con. and stone. $150,000. Miller, Fullenwider & Dowling, 646 North Michigan Ave., Chicago, archts.

Mo., Canton—Dormitory—June 1, by J. H. Lynch & Son, archts., Dolph Bldg., St. Louis, 3 story and basement, rein.-con., brick and stone, on campus, here, for Culver-Stockton College. $150,000.

Mo., Koch—Employees, etc.—June 3, by Bd. Pub. Serv., 208 City Hall, St. Louis, employees building, $216,500, and kitchen building, $66,500, 2 and 3 story, brick, concrete and stone, at Robert Koch Sanitorium, here. L. R. Bowen, 301 City Hall, St. Louis, archt. and engr. Noted Nov. 22 and Jan. 31.

Mo., St. Louis — Church and Sunday School — May 15, by J. H. Lynch & Son, archts., Dolph Bldg., 2 story and basement, 85 x 110 ft., rein.-con., brick, stone and marble, Kingshighway and Cote Brilliant St., for Salem Methodist Episcopal Church. $150,000.

Tex., Dallas—Office and Factory—Sanger Bros., Main and Lamar Sts., taking bids 4 story and basement, 95 x 117 ft., brick and concrete, Jackson St. $150,000. Lang & Witchell, Amer. Exch. Natl. Bank Bldg., archts.

Tex., San Antonio—Office—May 15, by Willis & Jackson, archts., Chandler Bldg., 9 story and basement, rein.-con., plain foundation, North St. Marys and Pecan Sts., for San Antonio Builders Exch., 201-207 Bedell Bldg. $200,000. M. L. Diver, Calcasieu, Bldg., engr. Noted May 13.

Colo., Denver—Bank and Office—May 15, by Hoyt & Hoyt, archts., Colorado Natl. Bank Bldg., 4 story and basement, 75 x 125 ft., steel, concrete and marble, for Colorado Natl. Bank, 17th and Champa Sts. $400,000.

Colo., Denver—South High School—May 15, by School Bd., School Administration Bldg., superstructure, 3 and 4 story, 326 x 386 ft., rein.-con., brick and terra cotta, South Gilpin and Louisiana Sts. $1,500,000. Fisher & Fisher, U. S. Natl. Bank Bldg., archts.

Calif., Berkeley—Church—J. W. Plachek, supervising archt., 2014 Shattuck Ave., taking bids 3 story, rein.-con., Durant St., here, for Bd. Missions Methodist Episcopal Church South, Lambuth Bldg., Nashville, Tenn. $200,000. Noted Oct. 18.

Calif., Covina — Hospital — T. Jewell, archt., Pacific Finance Bldg., Los Angeles,

Buildings (Continued)

taking bids 1½ story, 110 x 115 ft., brick, for Covina Hospital, 2nd St., here.

Calif., Long Beach—School—Bd. Educ. taking bids Whittier School, brick. To exceed $150,000. H. H. Lochridge, Markwell Bldg., engr. G. M. Lindsay, Laughlin Bldg., Los Angeles, archt. Noted Feb. 21.

BIDS RECEIVED

N. Y., New York—Nurses School—General Medical Superintendent, Bellevue Hospital, 415 East 26th St., general contract for additional wings to Bellevue training school for nurses, from P. J. Carlin Constr. Co., Grand Central Terminal, $412,000; heating work, from Austin Eng. Co., 124 West 42nd St., $32,775; plumbing work, from P. F. Kenny Sons, Inc., 33 Old Bway., $99,400. Noted Apr. 24.

N. Y., Wende (Millgrove P. O.)—Penitentiary—Erie Co., City Hall, Buffalo, general contract, 400 x 500 ft., rein.-con. and brick addition, here from Morris & Allen, Prudential Bldg., $491,467; plumbing, from J. S. Candee, 594 South Park Ave., $48,385. Noted Apr. 24.

Md., Baltimore—Animal House and Aviary—Mayor and City Council, 1 story and basement, 60 x 410 ft., brick and stone, Druid Hill Park, from J. H. Miller, Inc., Eutaw and Franklin Sts., $327,000. Noted Apr. 24.

Md., St. Marys City—Seminary—S. Russell, archt., 11 East Lexington St., Baltimore, 3 story and basement, 42 x 152 ft., concrete and brick, plain foundation, here, for St. Marys Female Seminary, from Hastings & Parsons, Water St., Salisbury, $134,792. Noted Apr. 24.

Minn., St. Paul—School—Dept. Educ., City Hall, Apr. 29, 3 story and basement, 160 x 200 ft., rein.-con., brick and tile, Albert St. and Pascal Ave., general contract from P. E. Swenson & Co., 340 Endicott Bldg., $278,795. Noted Apr. 24.

Calif., San Bernardino—High School—San Bernardino Union High School Dist., rein.-con. high school, general contract from G. Herz, San Bernardino, $151,179. Noted Mar. 6.

CONTRACTS AWARDED

Conn., Kent—Dining Hall—City, 56 x 120 ft. dining hall at Kent School, rein.-con. and brick, to H. P. Cummings Constr. Co., Ware, Mass. Archts. est. $200,000.

N. Y., Albany—Apartment—Ten Broeck Apartment Co., 9 story, 50 x 210 ft., brick and steel, plain foundation, Northern Blvd., to T. A. McHale & Son, Albany, $630,000.

N. Y., Buffalo—School—Bd. Educ., Telephone Bldg., P. S. 31, 3 story and basement, 160 x 200 ft., rein.-con., brick and stone, Lovejoy St., to Tifft Constr. Co., Iroquois Bldg., $556,290. Noted Apr. 10.

N. Y., Gouverneur—Church—Building Com. St. James Catholic Parish, masonry contract for new church, to J. B. Reid, Alexandria Bay, $100,000. Total cost $150,000.

N. Y., New York—School—St. Francis Xavier College, 30 West 16th St., brick, steel and stone, 41 West 15th St., to W. L. Crow Constr. Co., 103 Park Ave. Archts. est. $175,000.

N. Y., Rochester—Natatorium—New York State Railways, Rochester Lines, 175 x 300 ft. outdoor natatorium, to Natatorium Constr. Co., 76 William St., New York City, $300,000.

N. Y., Rochester—Office—Rochester Gas & Electric Corp., 34 Clinton Ave. N., office building, East Ave. and Gibbs St., to W. T. Jackling, 680 Clinton Ave. S.

N. Y., Syracuse—Office—White & Denison Estate, 4 story, tapestry brick, Fayette and South Warren Sts., to Dawson Bros., Union Bldg., $200,000.

N. Y., Troy—Auditorium, School and Rectory—Church of Sacred Heart, 2 story, 120 x 140 ft., brick and steel, plain foundation, Pawling and Spring Aves., to C. P. Boland & Co., P. O. Box 587, $300,000. Noted Feb. 21.

N. J., Camden—Manufacturing—Victor Talking Machine Co., Front and Cooper Sts., 10 story and basement, 70 x 170 ft., rein.-con. and brick, plain foundation, to Stone & Webster, Real Estate Trust Bldg., Phila.

Pa., Elizabethtown—Home for Boys—E. A. Wightman, archt., Bankers Trust Bldg., Phila., 3½ story and basement, 65 x 110 ft. rein.-con., brick and steel, plain foundation, to Hughes-Foulkrod Co., Commonwealth Bldg., Phila., for Masonic Home Assn., Elizabethtown. Noted Apr. 10.

Pa., Hazelton—Exchange—J. T. Windrim, archt., Commonwealth Bldg., Phila., 2 story and basement, 80 x 150 ft. brick and steel, plain foundation, to F. M. Harris, 1520 Parrish St., Phila., for Bell Telephone Co., 17th St. and Parkway, Phila. Noted Apr. 10.

Pa., Phila.—Office—L. Rotschild, archt., 215 South Broad St., 10 story and basement, 60 x 100 ft., rein.-con. and limestone, plain foundation, Sydenham and Locust Sts., to Wark Co., 1600 Walnut St., for C. Kahn, Morris Bldg. Noted Mar. 27.

Md., Baltimore—Office—Physicians and Surgeons Building, Inc., c/o A. F. Olson, 3935 Cedar Ave., 8 story, brick and steel, plain foundation, Cathedral and Richmond Sts., to J. H. Miller, Inc., Eutaw and Franklin Sts., $750,000. Noted May 1.

Md., Baltimore—Synagogue—Beth Tfilloh Synagogue, Equitable Bldg., 2 story, 72 x 73 ft. synagogue and 55 x 85 ft. house, stone, plain foundation, Garrison and Dalrymple Aves., to M. A. Long Co., 17 Guilford Ave. Archts. est. $150,000. Noted Jan. 31.

Md., Baltimore—Warehouse—Canton Co., 3 story, 80 x 200 ft., rein.-con., wood pile foundation, 12th Ave., to Sanford & Brooks Co., Commerce and Water Sts., $150,000.

D. C., Wash.—Apartment—B. S. Simmond, archt., 1013 5th St. N. W., constructing Embassy Apartments, Mt. Pleasant and Harvard Sts., N. W., to G. E. Wyne, Home Life Bldg., 15th and G Sts., $600,000. Owner's name withheld.

D. C., Wash.—Hotel—G. T. Santmeyer, archt., 1415 K St. N. W., constructing hotel, 19th St. between E and F Sts., to F. H. Gore, 1410 G St. N. W., $300,000. Owner's name withheld.

Fla., Miami—Hotel—Buena Vista Hotel Co., H. I. Hausbrough, secy., 6 story, 200 rooms, on site of Old Peacock Hotel, to P. B. Bechard, 202 Point View, cost plus basis. Archts. est. $500,000. Noted Feb. 28.

Fla., Tampa—Hotel—Tampa Terrace Hotel Co., Inc., C. L. Knight & Sons, Agts., Citrus Exch. Bldg., 13 story, basement and sub-basement, 140 ft. front, brick and steel, Lafayette St. and Florida Ave., to Adair & Senter, 102 Crescent Pl., cost plus basis. Archts. est. $700,000.

Ala., Ensley—Church—Baptist Church of Ensley, 2 story, 75 x 110 ft., brick and stone, to Holly & Davis, Ave. L and 25th St., $200,000. Noted Feb. 21.

La., New Orleans—Hospital—Bd. Administrators Charity Hospital, Tulane and Villere Sts., 4 story, 57 x 105 ft., to G. E. and E. E. Reiman Co., Ltd., 307 Weiss Bldg., $238,986. Noted Mar. 27.

La., New Orleans—Warehouse—Marks Isaac & Co., Canal St., 6 story, 37 x 97 ft. storage plant and warehouse, brick and cement, Royal St., to G. F. Favrot, Canal-Commercial Bank Bldg., $90,000.

O., Cleveland—Apartment—S. Glaser, 202 Ulmer Bldg., 3 story and basement, 30 x 166 ft., brick, 1900 Ansel Rd., to A. Bachkoosky and W. Wolkoff, 2184 East 69th St. Archts. est. $150,000. Noted Sept. 6.

O., Cleveland—Commercial—G. Koller, 724 Prospect Ave., 4 story, 50 x 81 ft., brick and steel, 633 Huron Rd., to J. Kutnick, 5902 Longfellow Ave. Archts. est. $150,000.

Ind., Indianapolis—Business—Kothe, Wells & Bauer, 102 South Delaware St., 4 story and basement, 80 x 116 x 188 ft., rein.-con. and steel, Virginia Ave., to Thompson Binger Constr. Co., Hume-Mansur Bldg. Archts. est. $250,000.

Ind., South Bend—Clubhouse—Knights of Columbus, 3 story and basement, 100 x 200 ft., rein.-con., brick and steel, West Jefferson St., to Kuehn-Jordax Constr. Co., 725 Wilber St. Archts. est. $250,000. Noted Jan. 17.

Mich., Detroit—Bank—A. Kahn, archt., 1000 Marquette Bldg., furnishing and erecting structural steel for 5 story and basement, 65 x 74 ft., rein.-con., brick and steel, plain foundation, Griswold St., for First State Bank, Griswold St. and Lafayette Ave., to Whitehead & Kales, 2361 Beecher Ave. Noted Apr. 10.

Mich., Detroit—Office—Donaldson & Meier, archts., 1314 Penobscot Bldg., 8 story and basement, 50 x 120 ft. rein.-con., brick and steel, plain foundation, Washington Blvd., for Bishop M. J. Gallagher, 1230 Washington Blvd., to Talbot & Meier, 250 West Lafayette Blvd. $300,000. Noted Mar. 27.

Mich., Detroit—School—Bd. Educ., 1364 Bway. Ave., 2 story and basement, 150 x 184 ft. rein.-con., brick and steel, plain foundation, Beaumont Ave., to Roswarne, McNab, & Worswick, 333 State St., $307,903. Noted Mar. 27.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 83 x 163 ft. rein.-con., brick and steel, plain foundation, Courtland Blvd., to Cooper-Widenmann Constr. Co., 4612 Woodward Ave., $353,300. Noted Apr. 10.

Mich., Detroit—School—V. J. Water & Co., archts., 403 Hoffman Bldg., 3 story and basement, 151 x 210 ft., brick, stone and steel, plain foundation, Lenox Ave., to F. R. Patterson Constr. Co., 2631 Woodward Ave., for St. Martins Church, Lenox and Avondale Aves. $200,000. Noted Apr. 3.

Mich., Grosse Pointe Shores (mail Grosse Pointe, branch Detroit P. O.)—Clubhouse—Lochmoor Club, 203 Lakeshore Ave., 2 story and part basement, 50 x 254 ft., brick and steel, Vernier Rd., to Corrick Bros., 507 Owen Bldg., Detroit. Archts. est. $200,000. Noted Feb. 28.

Ill., Anna—High School—Bd. Educ., 2 story and basement, 85 x 130 ft., brick, concrete and stone, Anna-Jonesboro Community High School, general contract to Robinson Bros., Anna, $80,000. Archts. total est. $175,000. Noted Apr. 10.

Ill., Chicago—Apartment—R. F. France, archt. and owner, 155 North Clark St., 3 story and basement, 100 x 110 ft., fireproof, Winchester and Cullom Sts., to D. M. Reid, 140 South Dearborn St. Archts. est. $150,000. Noted Apr. 17.

Ill., Chicago—Apartment—Owner, c/o A. Jacobs, archt., 138 North LaSalle St., 3 story and basement, 120 x 130 ft., fireproof, Chase and Paulina Sts., to J. Gamm, 133 West Washington St. Archts. est. $160,000.

Ill., Chicago—Apartment—Lindstrom & Johnson, 77 West Washington St., 3 story, 130 x 252 ft., fireproof, 4726-40 Woodlawn St., to A. Lindstrom, c/o owners. Archts. est. $400,000.

Wis., Milwaukee—Apartment-Hotel—Milwaukee Apartment Hotel Co., c/o R. Razall archt., 114 Grand Ave., 2 units each 4 story and basement, 105 x 116 ft., brick and concrete, plain foundation, Cass St., to Brun Constr. Co., 387 Clinton St. Archts. est. $800,000. Noted Feb. 28.

Wis., Milwaukee—Apartment—Milwaukee Sales & Investment Co., 530 Grand Ave., 8 story and basement, 75 x 167 ft., brick and concrete, plain foundation, Grand Ave., to S. M. Siesel Co., 160 Ogden Ave. $500,000. Noted Mar. 27.

Minn., Bloomington—Home—See "Unclassified" under Contracts Awarded.

Minn., Winona—College—College of St. Teresa, 3 story and basement, L-shaped, rein.-con., brick and stone sisters home, and 65 x 150 ft., stone, brick and rein.-con. chapel, on College campus, to Heffron & Fitzgerald, Rochester, $150,000 each.

Neb., Beatrice—School—Bd. Educ., general contracts for junior high school and Harrington grade School to G. Walker, 3rd and Congress Aves., Leavenworth, Kan.; remodeling South, Fairview and Glenover Schools to Robertson & Conn, Beatrice; heating, plumbing and ventilating in all schools to MacMahon Co., 1316 Oak St., Kansas City, Mo.; electric work in junior high school to Universal Electric Co., Lincoln; electric work in South and Harrington grade schools to Baker-Hartzell, Beatrice; electric work in Fairview and Glenover Schools to Sprague Electric Co., Beatrice. Noted Mar. 20.

Mo., St. Louis—Store—B. Nugent & Bros. Dry Goods Co., Bway. and Washington St., general contract 10 story and basement, 160 x 160 ft., rein.-con., brick, stone and steel store with arcade, to Wimmer Contg. Co., Victoria Bldg. Archts. est. $3,000,000. Noted June 7.

Mo., St. Louis—Sunday School—Centenary Methodist Episcopal Church, 16th and Pine Sts., 3 story and basement, brick, concrete and stone, to Dicke Constr. Co. Syndicate Trust Bldg. Archts. est. $150,000. Noted Jan. 24.

Mo., Savannah—Sanatorium—De Perry Nichols, 4 story and basement, 144 x 184 ft., rein.-con., brick and stone, to Campbell Constr. Co., Perry, Ia. Archts. est. $400,000.

Ark., Little Rock—Auto Service—Five Fifty-Five Tire & Service Co., 225 Bway., 3 story, 140 x 150 ft., rein.-con., brick and stone, to F. Parrott, 2514 Schiller St. $150,000. Noted Apr. 3.

Tex., Ft. Worth—Church—Travis Ave. Baptist Church, c/o C. E. Mathews, 3041 Travis St., will build 3 story and basement, 85 x 95 x 140 ft., Travis St., by day labor $150,000. H. Elbon, 3602 St. Louis St., supt. in charge. C. H. Woodruff, Reynolds Bldg., archt.

Okla., Norman—Administration, Medical and Engineering—State Bd. of Affairs, Oklahoma City, general contracts; 3 story and basement, administration building, to Beaty & Burns, Norman, $93,750, medical build-

Buildings (Continued)

ing, to C. M. Dunning, 322 North Robinson St., Oklahoma City, $84,000, engineering building to R. M. Crissman, 1513 West 20th St., Oklahoma City, $70,092.

Okla., Tulsa — Hotel — C. P. Alexander, 244 Robinson Bldg., will build 5 story and basement, 100 x 140 ft., rein.-con., brick and steel, plain foundation, Cheyenne St., by day labor. $200,000. Noted Jan. 31.

Okla., Tulsa—Store—Kress Stores Co., 114 5th Ave., 3 story and basement, brick, plain foundation, Boston St., to Shallenberger Constr. Co., 1631 East 6th St., $170,000. Noted Apr. 3.

Colo., Denver — Grade School — School Dist., general contract 2 story, 80 x 254 ft., to A. Danielson & Son, McMann Bldg., $208,400. Noted Apr. 17.

Ore., Portland—Office and Store—B'way.-Oak Corp., B'way. and Oak Sts., 3 story, 100 x 100 ft., rein.-con., to Hurley Mason Co., Gasco Bldg., $250,000. Western Bond & Mortgage Co., lessee.

Calif., Long Beach—Bank and Office—Security Trust & Savings Bank, 502 South Spring St., Los Angeles, 13 story and basement, 75 x 150 ft., 1st and Pine Sts., here, to J. V. McNeil Co., H. W. Hellman Bldg., Los Angeles, $436,000. Noted Mar. 20.

Calif., Los Angeles—Garage and Showrooms—Paige Co. of Southern California, 2200 South Figueroa St., 3 story, 125 x 200 ft., rein.-con., 23rd and Figueroa Sts., to Westcott-DeCamp Co., 1831 North Main St., $185,000.

Calif., Los Angeles—Hotel—Davenport Corp., c/o contractors, hotel, approximately 10 story and basement, to contain 1,000 rooms, rein.-con. Hollywood Blvd. and Gower St., to Foundation Co., Lankershim Bldg. $3,500,000.

Calif., San Diego — Store and Loft — Dohrmann-Commercial Co., Geary and Stockton Sts., San Francisco, 4 story and basement, rein.-con., here, to J. S. Sampson Co., Monadnock Bldg., San Francisco, $165,000. Noted Apr. 3.

Calif., Santa Ana — Apartment — X. Y. Ayers and R. W. Townsend, 9 story and basement, 5 x 190 ft., rein.-con., Main and Washington Sts., to Concrete Constr. Co., Santa Ana, $650,000.

B. C., Vancouver—Bank—Bank of Montreal, 109 James St., Montreal, Que., 3 story, 70 x 100 ft. rein.-con., brick, stone and tile, to Poole Constr. Co. Ltd., Birks Bldg., $410,000. Noted Mar. 27.

Que., Montreal — Home — Grey Nuns, Grey St., 4 story and basement, 60 ft. high, 80 x 400 ft. with 40 x 150 ft. wing, rein.-con., on Cote De Liesse Rd., St. Laurent Parish, to Atlas Constr. Co., Belmont St., $538,000.

Que., Montreal — Mothers Home — Religeuses Ste. Croix, 5 story, 68 ft. high, 50 x 112 ft. rein.-con., St. Laurent Rd., to A. and D. Boileau, 245 McDougall Ave., $150,000.

Federal Government Work

PROPOSED WORK

N. Y., New York—Barracks—Spec. 4970—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans converting building into marine barracks.

Md., Annapolis—Building—Spec. 4973—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans tube transmitter building.

Ala., Florence—Operating Machinery—U. S. Engineer, Florence, takes bids about May 26, furnishing operating machinery for 58 gates at Wilson Dam.

Tex., Galveston—Radio Compass Station—Spec. 4974—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans radio compass station here.

Calif., San Francisco—Pumps—U. S. Engineer plans 9 deep well pumps, 250 g.p.m. capacity each, at Lobos Creek, in wells 100 ft. deep.

BIDS DESIRED

R. I., Pawtucket—Boiler, etc.—May 28, by Treas. Dept. at office Supervising Architect, Wash., D. C., removing present boiler and furnishing and installing new horizontal, portable, smokeless, fire box steel heating boiler at Post Office, here; adv. E. N.-R. May 8.

N. Y., Saranac Lake—Post Office—June 11, by Treas. Dept. at office Supervising Architect, Wash., D. C., 1 story and basement, 68 x 73 ft., here; adv. E. N.-R. May 8.

D. C., Wash.—Tender—May 15, at office Commissioners of Lighthouses, Wash., D. C., lighthouse Tender Willow for use in Mississippi River.

W. Va., Huntington—Power House—May 28, by U. S. Engineer Office, War Dept., Wash., D. C. fireproof power house at Dam 32, Ohio River.

Mich., Detroit—Dredging—May 31, by U. S. Engineer, Detroit, dredging in Russell Island Shoal, St. Clair River; adv. E. N.-R. May 8. Noted Apr. 10.

Kan., Leavenworth—Boiler—May 28, by Treas. Dept., Superv. Archt. Office, Wash., D. C., furnishing and installing 2 horizontal smokeless fire box heating boilers at U. S. Court House and Post Office here; adv. E. N.-R. May 8.

Wyoming—Road—May 14, by Bureau Pub. Rds., 301 Customhouse, Denver, Colo., grading and surfacing 4 mi. Buffalo-Tensleep Rd., Washakie Co.

Nevada—Roads—May 28, by C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., 10.64 mi. Austin-West Forest Highway, Lander Co., 63,024 cu.yd. excav., 7,326 cu.yd. surface, etc.

Calif., San Diego—Hospital—Spec. 4955—June 4, by Bureau Yards & Docks, Navy Dept., Wash., D. C., hospital buildings, plumbing work, etc. Noted Mar. 6.

BIDS RECEIVED

Ky., Addison—Gates—U. S. Engineer, P. O. Box 72, Louisville, 2 mitering gates for lock 5, Green River, and 50 tons steel f.o.b. Addison, from Independent Bridge Co., May Bldg., Pittsburgh, $6,840.

CONTRACTS AWARDED

Mass., Thatcher Island—Radio Compass, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio compass station, tramway, and repairs to buildings to Howard Bros., 412 Dorchester Ave., South Boston, $13,499. Noted Apr. 17.

N. Y., Brooklyn—Pavements and Walks—Spec. 4953—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete pavements and walks at Naval Hospital here, to J. D. Eng. Corp., 1976 Nostrand Ave., $4,000. Noted Apr. 24.

Ala., Florence—Cement—U. S. Engineer, Florence, furnishing 56,000 bbl. portland cement for Wilson Dam, Tennessee River: 20,000 bbl. to Atlas Portland Cement Co., B. M. Bldg., Birmingham, $44,160; 20,000 bbl. to Phoenix Portland Cement Co., Birmingham, $44,800; 10,000 bbl. to Dixie Portland Cement Co., James Bldg., Chattanooga, Tenn., $21,100; 6,000 bbl. to Lehigh Portland Cement Co., $13,500.

Ala., Florence—Steel—U. S. Engineer, furnishing 128 tons reinforcing steel, to Truscon Steel Co., 513 North 21st St., Birmingham, $6,183.

Ala., Florence—Steel Gates—U. S. Engineer, Florence, furnishing and erecting 58 steel regulating gates for Wilson Dam, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $237,510. Noted Mar. 13.

O., Cincinnati—Dwellings—U. S. Engineer, Cincinnati, lock tenders dwellings at Dams 34, 36 and 38 Ohio River, to W. MacDonald Constr. Co., St. Louis, Mo., $54,885. Noted Apr. 10.

Mich., Detroit—Rip-Rap—U. S. Engineer, Detroit, furnishing, placing, recovery and replacing stone rip-rap at Harbor Beach to T. L. Durdcher Co., Detour, $41,750. Noted Mar. 20.

Mo., Marthasville — Current Retards — U. S. Engineer Office, Kansas City, 1,363 ft. current retards to Woods Bros. Constr. Co., Lincoln, Neb., $74,695. Noted Apr. 3.

Unclassified

PROPOSED WORK

Transmission Line—New York—Adirondack Power & Light Co., 511 State St., Schenectady, had plans prepared 30 mi., 110,000 volt transmission line from Oneida to Syracuse. $250,000.

Transmission Line — New York — Utica Gas & Electric Co., 222 Genessee St., Utica, plans 3 phase high tension transmission line from Trenton to Newport. To exceed $25,000.

Tramway—Gloversville, N. Y.—United States Feldspar Corp., plans 2 mi. aerial tramway. $40,000. C. H. Pedrick, Jr., genl. mgr.

Hydro-electric Development—High Falls, N. Y.—Beaver River Power Corp., Saranac Lake, had plans prepared 50 ft. steel and concrete dam, 600 ft. steel penstock, and power house, etc., here. $85,000. Private plans.

Ornamental Lighting System—Kenmore, N. Y.—Bd. Village Trustees plans ornamental lighting system. $30,000-$35,000.

Ornamental Lighting Posts—Tupper Lake, N. Y.—Village Bd. plans approximately 50 to 60 ornamental lighting posts (clusters). Cost incl. conduit, etc. $30,000.

Car Barns — Phila., Pa. — Phila. Rapid Transit Co., 8th and Dauphin Sts., having plans prepared superstructure of car barns, 20th and Johnstown Sts. $300,000. Private plans.

Trolley Tunnel—Phila., Pa.—City, Fairmount Park Comn., City Hall, having plans prepared completing trolley tunnel in front of Art Museum in Fairmount Park. $200,000. H. Trumbauer, Land Title Bldg., archt.

Hydro Electric Development—Bartletts Ferry, Ga.—Columbus Electric & Power Co., 1151 Bway., Columbus, preparing plans hydro electric development, here. $5,000,000. Stone & Webster, 147 Milk St., Boston, Mass., engrs.

Barges—Mobile, Ala.—Mississi-Warrior Barge Line, Mobile, plans 20 new barges for use on Warrior River. $150,000.

Swimming Pool—New Orleans, La.—See "Buildings."

Swimming Pool—Cincinnati, O.—Coney Island Park Co., 1011 1st Natl. Bank Bldg., plans 200 x 400 ft. concrete swimming pool. $350,000.

Transmission Line—Oberlin, Kan.—Election soon $30,000 bonds transmission line. Ruckel Eng. Co., Interurban Bldg., Hutchinson, engrs.

Lighting System—St. Louis, Mo.—Soon takes bids electric street lights and standards in various parts of city. $250,000. R. Toenesfeldt, City Hall, engr. Noted Jan. 10.

Flood Control—Bay City, Tex.—Matagorda Co. voted $685,000 bonds improving Colorado River for flood control, incl. levees, ditching, etc. W. E. McNabb, co. judge. Noted Apr. 10.

Ornamental Lights—Dallas, Tex.—Making plans ornamental lights on Earvay St. from Commerce to Forest Sts. and Young St. from Houston to Harwood Sts. $80,000-$100,000. E. A. Kingsley, city engr.

River Protection—El Paso, Tex.—Voted $105,000 bonds, embankments, walls and buffers on river bank for flood protection, partly earth and concrete; $49,000 bonds flood retention or protection wall at foot Rio Grande St., earth and rein.-con. Address Mayor Dudley. Noted Apr. 17.

Seawall—California—See "Streets and Roads."

Park Improvements—Palo Alto, Calif.—City plans to vote on over $25,000 bonds, park improvements. J. F. Byxbee, Jr., city engr.

Electrolier System—Sacramento, Calif.—Having plans prepared electrolier system, Montgomery Way, 6th, 7th and 10th Aves., west of Franklin Blvd., within limits South Curtis Oaks Dist. $25,000 or more. A. Givan, city engr.

Steel Gas Holder—La Salle, Que.—Montreal Light, Heat & Power Co., Craig St. W., Montreal, plans 6,000,000 cu.ft. steel gas holder, 240 ft. base diam., in conjunction with extension to gas plant here. Ultimate cost $2,500,000.

Caissons — Montreal, Que. — Grey Nuns, Grey St., plan excavating under building at Cote De Liesse Rd. and sinking 50 caissons, 35 to 40 ft. deep, 4 ft. wide. $50,000 to $60,000. A. Piche, 33 Belmont St., archt.

Harbor Improvements—Toronto, Ont.—Toronto Harbor Comrs., Harbor Bldg. plans dredging, hydraulic filling, concrete walls, wood piling, etc., in Toronto Harbor. $500,000. E. L. Cousins, c/o owner, engr.

Grain Elevator—Vancouver, B. C.—Vancouver Harbor Comrs., 525 Seymour St., making plans 1,000,000 bu. addition to grain elevator, rein.-con. $400,000. W. G. Swan, c/o owner, engr.

BIDS DESIRED

Approaches to Underpass — Hartford, Conn.—May 13, by Bd. Contract and Supply, Municipal Bldg., approaches to Capitol Ave. underpass, 16,100 cu.yd. earth excav., 500 cu.yd. concrete in retaining walls, 4,400 sq.ft. walks, 845 ft. 6-20 in. sewers, etc. P. McGovern, secy.

Classification Yard—Binghamton, N. Y.—Delaware, Lackawanna & Western R.R., Baldwin St., at office of Division Engineer, taking bids new classification yard (exclusive of trackage). $800,000-$900,000.

Hydro-Electric Development — Watertown, N. Y.—Power Corp. of New York, Northern New York Trust Co. Bldg., taking bids hydro-electric development, on Beaver River at Soft Maple Dam, incl. rein.-con. dam, penstock, power house and generating equipment. To exceed $500,000. W. P. Creager, ch. engr. Noted July 13.

Stadium — Shreveport, La. — Louisiana State Fair Assn. taking bids 300 x 600

Unclassified (Continued)

ft. concrete and steel stadium. $75,000. Jones, Olschner & Wiener, Ardis Bldg., archts.

Electrolier System—Bakersfield, Calif.—City Council taking bids 38 electroliers, 8,626 lin.ft. 1 in. conduit, 8,894 lin.ft. lead covered cable, Sonora and H Sts. Noted Apr. 24.

BIDS RECEIVED

Foundations—Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, foundations for electrical repair shop at Coney Island Yard, here, from J. D. Walsh, Inc., 132 4th St., Brooklyn, $37,000. Noted Apr. 24.

Heating and Plumbing—New York, N. Y.—See "Buildings."

Signal Tower, etc.—New York, N. Y.—Transit Comn., 49 Lafayette St., May 2, signal tower in Lenox Ave. Yard. Agreement "DA," from J. B. Roberts Co., 1170 Bway., $19,521; structural steel for Westchester Ave. Yard, Routes 19 and 22, from C. Meads & Co., 217 West 14th St., $148,000; tracks for portion of Lenox Ave.-148th St. Yard, from T. H. Reynolds Contg. Co., 50 Park Pl., $70,411. Noted Apr. 24.

Plumbing — Wende (Millgrove P. O.), N. Y.—See "Buildings."

Ferry House, etc.—New Orleans, La.—Bd. Port Comrs., New Court Bldg., concrete and steel ferryhouse at Canal St. facade, from J. Reiss, Carondelet Bldg., $94,530. Noted Apr. 10.

CONTRACTS AWARDED

Power Development — Morrisville, Vt.—Water and Light Comrs., dam and power house, concrete and rein.-con., to J. M. Swan & Co., St. Johnsburg, $110,000. Total cost of project incl. lines and equipment $150,000-$175,000. Noted Apr. 3.

Subway — Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, Route 70, extending along and under Bedford Ave. from DeKalb Ave. to Keap St., here, to Oakdale Contg. Co., 93 Amity St., Flushing, $3,948,831. Noted Apr. 17.

Hydro-electric Development — Potsdam, N. Y.—St. Lawrence Valley Power Corp., concrete and brick power house, saddles for 4,500 ft. penstock, tail race excav., and gravity type concrete dam on Racquette River, 3 mi. from here, to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

Electric Light System—Phila., Pa.—G. H. Biles, dir. Pub. Wks., City Hall, and Bd. Trustees Free Library, City Hall, electric light, power and signal systems in Free Library, 20th, Wood and 19th Sts., to W. V. Pangborne Co., 1927 West Montgomery St., $188,600. Noted May 1.

Transmission Line — Tennessee — Nashville Railway and Light Co., Watkins Bldg., Nashville, will construct 15 mi. electric light and power lines from here to La Vergne, by day labor. Noted Apr. 24. J. P. Brown, supt.

Tunnel—Cleveland, O.—Cleveland Electric Illuminating Co., 300 ft. rein.-con. tunnel, 14 ft. wide, 9 ft. high, at East 165th St., to Great Lakes Constr. Co., B. F. Keith Bldg. Archts. est. $100,000.

Stadium — Milwaukee, Wis. — Marquette University, 1116 Grand Ave., 1st unit of stadium, 2 stands, each 100 x 300 ft., rein.-con., to W. W. Oeflein, 86 Michigan St. $175,000.

Foundation—Bloomington, Minn.—Minnesota Masonic Home Corp., 903 Hennepin Ave., Minneapolis, foundations for 1st unit of home along Minnesota River, to J. and W. A. Elliott Co., 906 Lumber Exch., Minneapolis, $30,000. Total cost $1,000,000.

Unloading Dock—Wichita, Kan.—Cudahy Packing Co., 23rd and Lawrence Sts., 1 story, 31 x 400 ft., rein.-con. unloading dock and icing shed, to H. I. Ellison Co., 401 East Douglas St. Est. cost $45,000.

Pipeline — Texas — McCorkle Pipe Line Co., San Antonio, will build oil pipe line from Duncan, Okla. to Corpus Christi, Gulf outlet either at Corpus Christi or Aransas Pass, 15 pumping stations to be placed at intervals, by day labor, $15,000,000; miscellaneous pumping machinery and oil pumps, to Prescott Co., Menominee, Mich., $1,400,000. Noted Mar. 13.

Pipeline — Texas — Pan Tex Pipe Line Co., Amarillo, 6 in. pipe line from Amarillo to oil fields north of city, to R. Irick, Plainview. $50,000. Private plans.

Transmission Line — Oklahoma — Oklahoma Power Co., Okmulgee, will build 33,000 volt electric transmission line from Weleetka to Wetumka, by day labor. $30,000.

Transit Sheds—Los Angeles, Calif.—Los Angeles City Harbor Comn., 2 story steel, at Berths 230 D and E, 232 A and B, to Lynch-Cannon Eng. Co., 1027 Chapman Bldg., $852,400. Noted May 1.

Wharves—Oakland, Calif.—F. G. White, Ferry Bldg., San Francisco, engr. of wharves, and P. Bush, 301 California St., San Francisco, engr. of buildings, taking bids for superstructure of wharves, etc., here, for Alaska Packers Assn., Wells Fargo Bldg., San Francisco. Contract for piling let to St. Helens Cresoting Co., Matson Bldg., San Francisco; excav. and pile driving, to A. W. Kitchen, 110 Market St., San Francisco, $0.49 per cu.yd. and $147,000 respectively. Noted May 1.

Material and Equipment

PROPOSED WORK

Broken Stone — Brooklyn, N. Y. — E. Riegelmann, boro pres., Boro Hall, received no bids Apr. 23, 4,000 cu.yd. 1½ in. and 1,200 cu.yd. ¾ in. broken stone, 1,000 cu.yd. broken stone screenings, 4,000 cu.yd. sand grit. Noted Apr. 17.

BIDS DESIRED

Road Roller—Little Falls, N. Y.—City Council taking bids 10 ton steam or gasoline road roller.

Riprap, etc.—New York, N. Y.—May 16, by Dept. Purchase, Municipal Bldg., riprap, asphalt binder, sand, cement, broken stone and asphaltic concrete.

BIDS RECEIVED

Asphaltic Oil, etc.—Trenton, N. J.—For 40,000 gal. asphaltic oil and 1,200 tons slag, from R. S. Barrett, Mechanic Bldg., $0.145 per gal. and $3.85 per ton respectively. Noted Apr. 17.

Slag—Trenton, N. J.—State Hy. Dept., Trenton, Apr. 21, crushed slag, dustless screenings: 3,869 tons from Natl. Slag Co., Allentown, Pa., $3,860, 3,500 tons, from Duquesne Slag Products Co., Dover, $4,318, 685 tons, from Philadelphia Slag Co., Pennsylvania Bldg., Phila., $788.

CONTRACTS AWARDED

Asphaltic Road Oil — Boston, Mass.—Dept. Pub. Wks., furnishing 350,000 gal. 45% asphaltic road oil to Pub. Wks. Dept., to Standard Oil Co., 88 Broad St., $0.0687 per gal, total $25,000.

Sand, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, 5,000 cu.yd. paving concrete sand, to Hygrade Builders Supply Co., 6th St. and 2nd Ave., $5.700; 4,000 cu.yd. gravel broken stone, to Rosoff Sand & Gravel Corp., 152 West 42nd St., New York, $9,720; 400,000 gal. road oil and 300,000 gal. asphalt cement, to Standard Oil Co., 26 Bway., New York, $23,640 and $17,910 respectively; 7,000 cu.yd. asphalt sand, to J. T. Cunningham, $9,730; 1,400 net tons limestone dust, to New York Trap Rock Corp., 101 Park Ave., New York, $8,862; 250 tons paving pitch, to F. J. Lewis Mfg. Co., Eastern Blvd. and East 177th St., New York, $7,162; 3,000 cu.yd. binder stone, to Calvin Tompkins Co., 30 Church St., New York, $6,920; 50,000 asphalt paving blocks, to Hastings Pavement Co., 25 Broad St., New York, $4,886; 50,000 wood paving blocks, to Southern Wood Preserving Co., 10 East 43rd St., New York, $2,688. Noted Apr. 17.

Metal Reinforcement—Buffalo, N. Y.—May 13, by Commissioner Parks & Pub. Buildings, 124,000 lb. metal reinforcement and 3,000 tons gravel and grit.

Graders and Concrete Mixer—Minneapolis, Minn.—F. S. Gram, city purch. agt., combined grader and scarifier, to Galion Iron Wks. & Mfg. Co., 234 Plymouth Bldg., $1,985 with allowance of $575 for old machine if turned in; grader to Austin Western Road Mchy. Co., 375 Cedar St., St. Paul, $1,165; tractor and concrete mixer, to T. W. Rosholt Co., 421 South 5th St., $4,445 and $2,722 respectively. Noted Apr. 3.

Road Oil—Minneapolis, Minn.—Hennepin Co., 200,000 gal. road oil, to Roxanna Petroleum Corp., 208 South La Salle St., Chicago, $0.0615 per gal. f.o.b. any station in Hennepin Co. Noted Mar. 13.

Brick, Reinforcing Steel, etc.—St. Paul, Minn.—For 16.21 tons straight reinforcing steel for Water Dept., to Truscon Steel Co., 408 Pioneer Bldg., $930; 13 tons c.i. flange pipe and specials, to South Park Fdry. & Machine Co., 23 East 6th St., $140 per ton; 1,144 sq.yd. 3-in. vertical fibre brick, to Purington Paving Brick Co., Galesburg, Ill., $1.59 per sq.yd.; 250 bbl. portland cement to Stiefel Material Co., 501 Concord St., $2.68 per bbl. delivered. Bids rejected on 48.736 tons straight reinforcing steel. Noted May 1.

Engine, etc. — St. Louis, Mo. — Income Leasehold Co., Pierce Bldg., 400 kw. uniflow engine and generator, for power plant, to Chuse Engine & Mfg. Co., Chemical Bldg., $25,000.

Official Proposals

Bids: May 13.

Road Work

STATE OF MARYLAND
STATE ROADS COMMISSION

Baltimore, Md.

Sealed Proposals for building seven sections of State Highway, as follows:

Allegany Co. Cont. A-26. One section of State highway along the Oldtown Road from the Western Maryland Crossing at North Branch to Patterson Depot, a distance of 1.55 miles. (Concrete.)

Prince George Co. Cont. P-50. One section of State highway along the Defense Highway from end of Cont. P-32 toward Collington, for a distance of 2.0 miles. (Concrete.)

Prince George Co. Cont. P-45. One section of State highway from the Crain Highway toward Croom for a distance of 2.0 miles. (Gravel.)

Baltimore Co. Cont. B-62. One section of State highway from Chase toward Cowenton, for a distance of 2.14 miles. (Concrete.)

Hartford Co. Cont. H-37. One section of State highway from end of Contract H-34 toward Dublin, for a distance of 1.0 mile. (Concrete.)

Caroline Co. Cont. Co-34. One section of State highway from end of Contract Co-28 to Burrsville, a distance of 1.35 miles. (Concrete.)

Wicomico Co. Cont. Wi-25. One section of State highway from end of Contract Wi-23 toward Nanticoke, a distance of 2.0 miles. (Concrete.)

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 13th day of May 1924, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 28th day of April 1924.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids: June 6.

Sea Wall, Fill, Sidewalk, etc.

Tampa, Fla.

Sealed bids will be received by the Board of County Commissioners, Hillsborough County, Florida, until 11:00 A.M., Friday, June 6, 1924, for the construction of approximately two and one half miles of concrete sea-wall, hyd. aulic fill, sidewalk, curb and drainage appurtenances.

Wall extends from city limits of Tampa, south to Ballast Point.

Plans and specifications may be obtained by application at the office of the County Engineer, Court House, Tampa, Fla. A deposit of $10.00 will be required for each set; deposit to be refunded upon return of plans before June 6.

Following is a list of approximate quantities:

Concrete	11,750 Cu.Yd.
Hydraulic Fill	125,000 Cu.Yd.
Timber Piling	51,000 Lin.Ft.
Concrete Handrail	13,000 Lin.Ft.
Sidewalk	13,850 Sq.Yd.
Curb (Concrete)	26,000 Lin.Ft.
Catch Basins	65

A certified check or bidder's bond executed by a Florida licensed bonding company, for the sum of $5,000.00 must accompany all bids. Make payable to Charles T. Friend, Chairman.

The Board reserves the right to reject any or all bids.

Signed, CHAS T. FRIEND,
Chairman,
Board Co. Commissioners,
Hillsborough Co., Fla.